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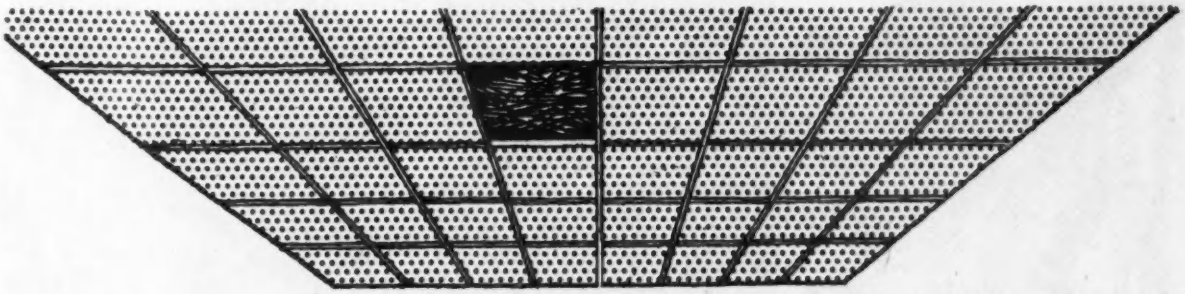

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Architect: S. P. Youldon, M.C., F.R.I.C.S., M.I.Mun.E., L.R.I.B.A.
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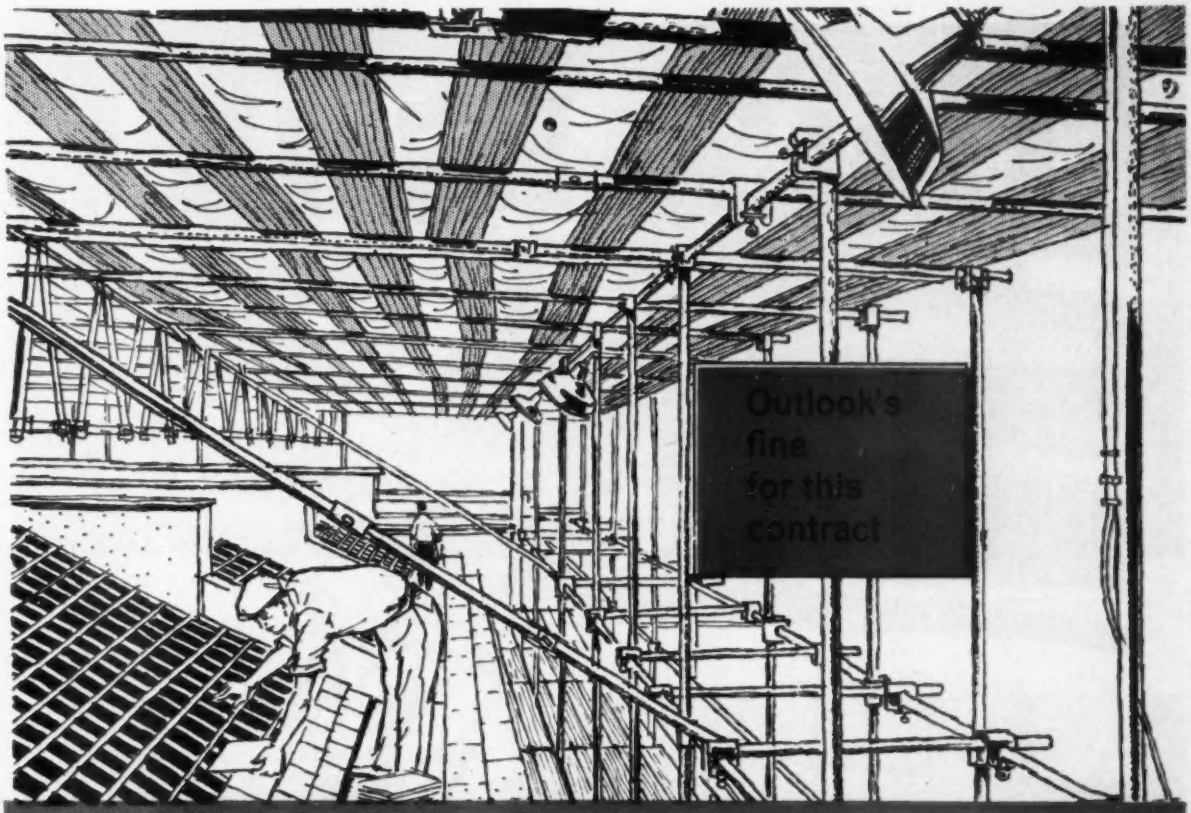

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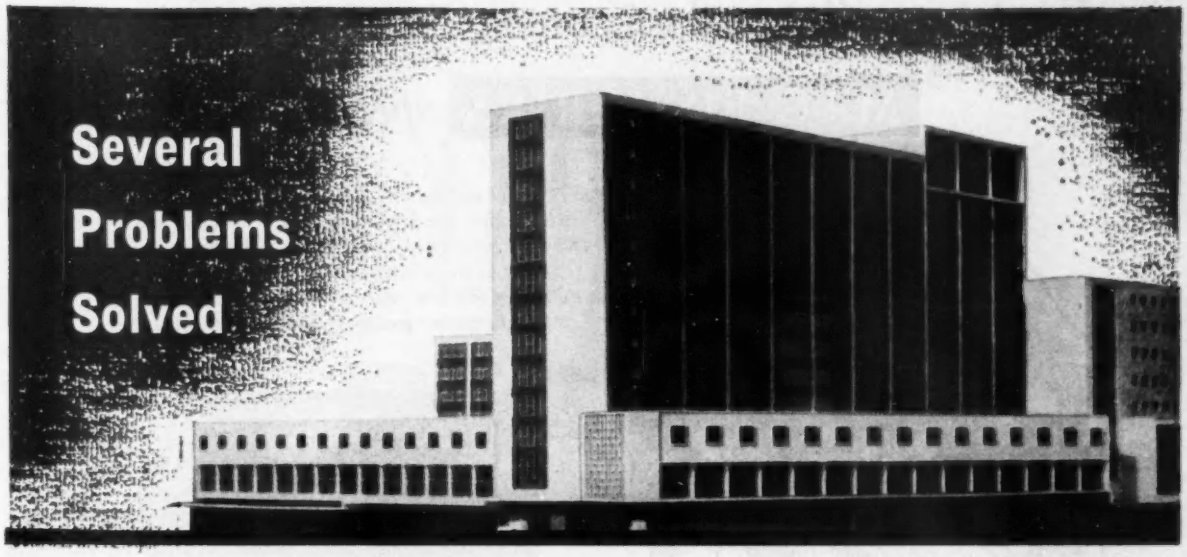

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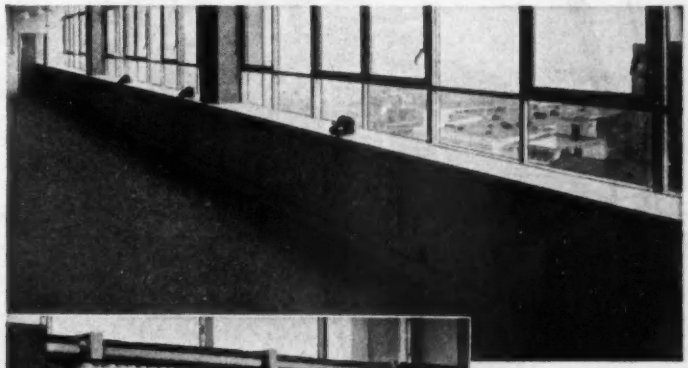
Architects: Messrs. Cotton, Ballard & Blow.
Heating Engineers: Couzens & Akers Ltd.

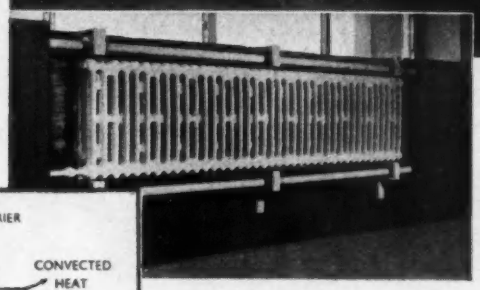
in Birmingham's Biggest Building

The heating and service trunking system devised for The Big Top is of special interest to all concerned with the design, construction and equipment of new buildings.

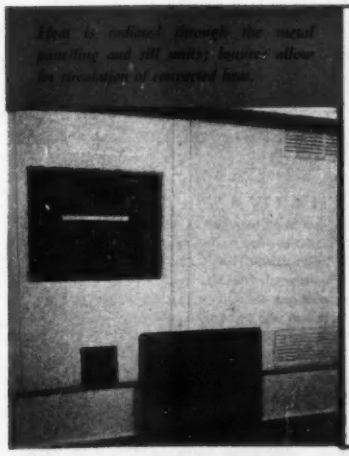
It provides both radiant and convected heating at low fuel cost. All telephone, lighting and power cables are completely concealed yet instantly accessible. Installation can keep pace with construction, thereby speeding up completion of curtain wall types of building.

The metal panelling and sill units for this important contract are typical of the work developed and produced by Harveys to architects' individual requirements.

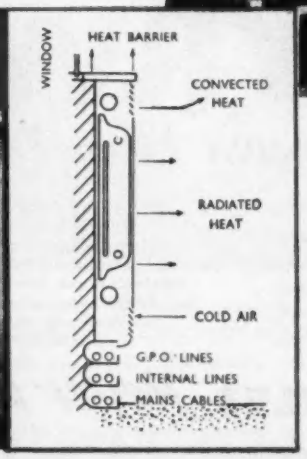




The steel panels which conceal all radiators and electrical services are stove enamelled to the same high standard as Harvey Desks and Partitioning.



Heat is radiated through the metal panelling and sill units; louvres allow the circulation of convected heat.



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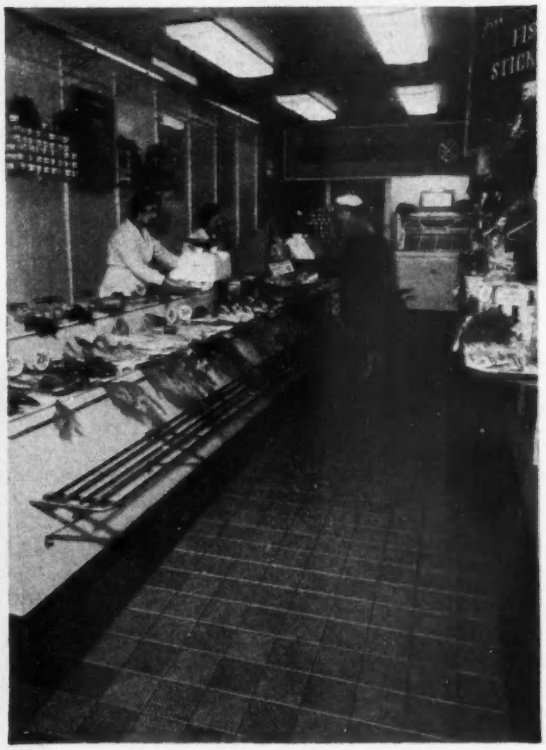

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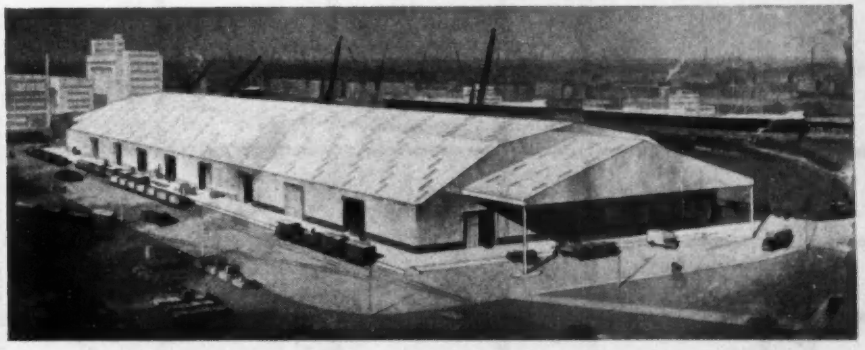

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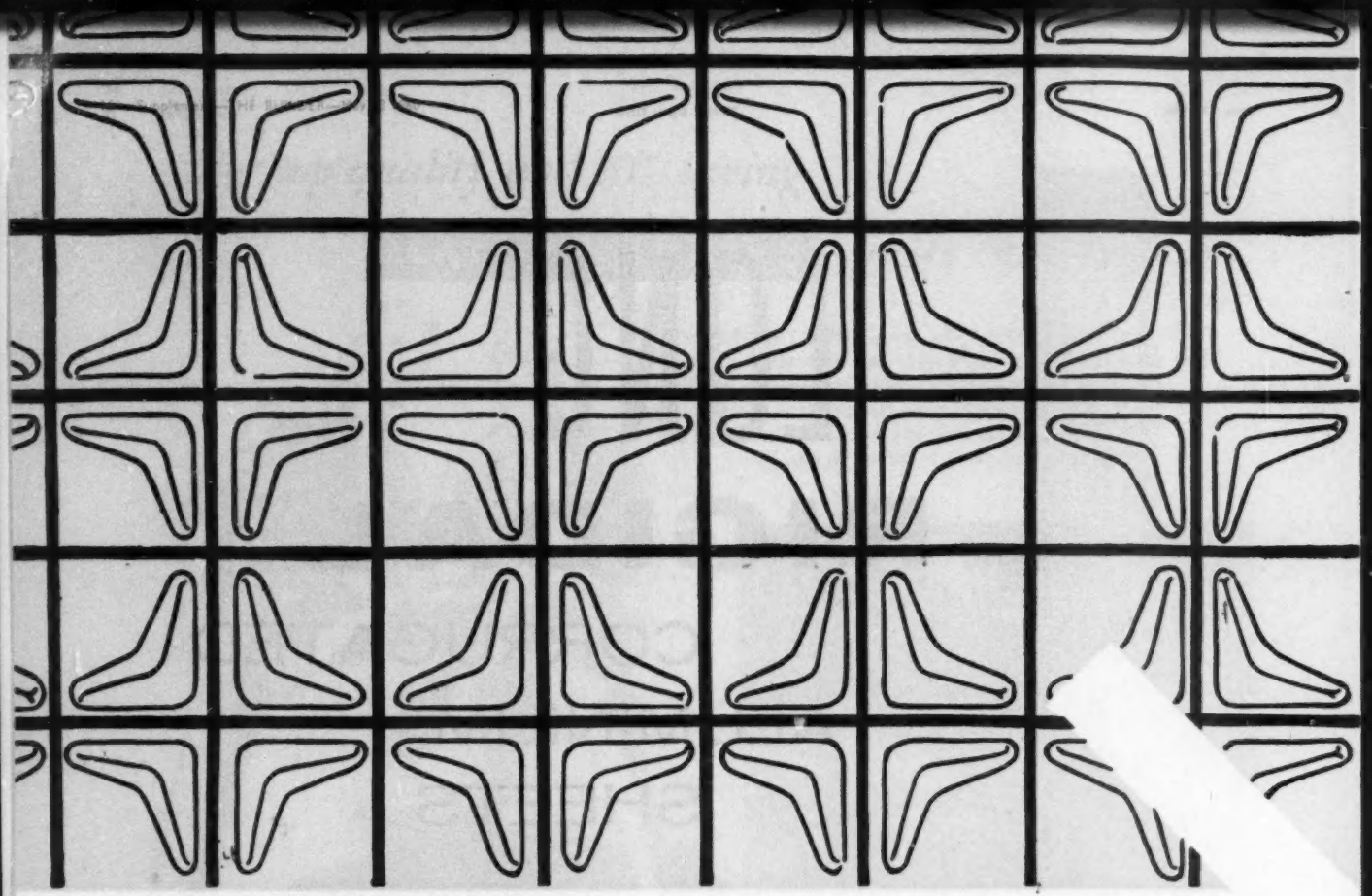
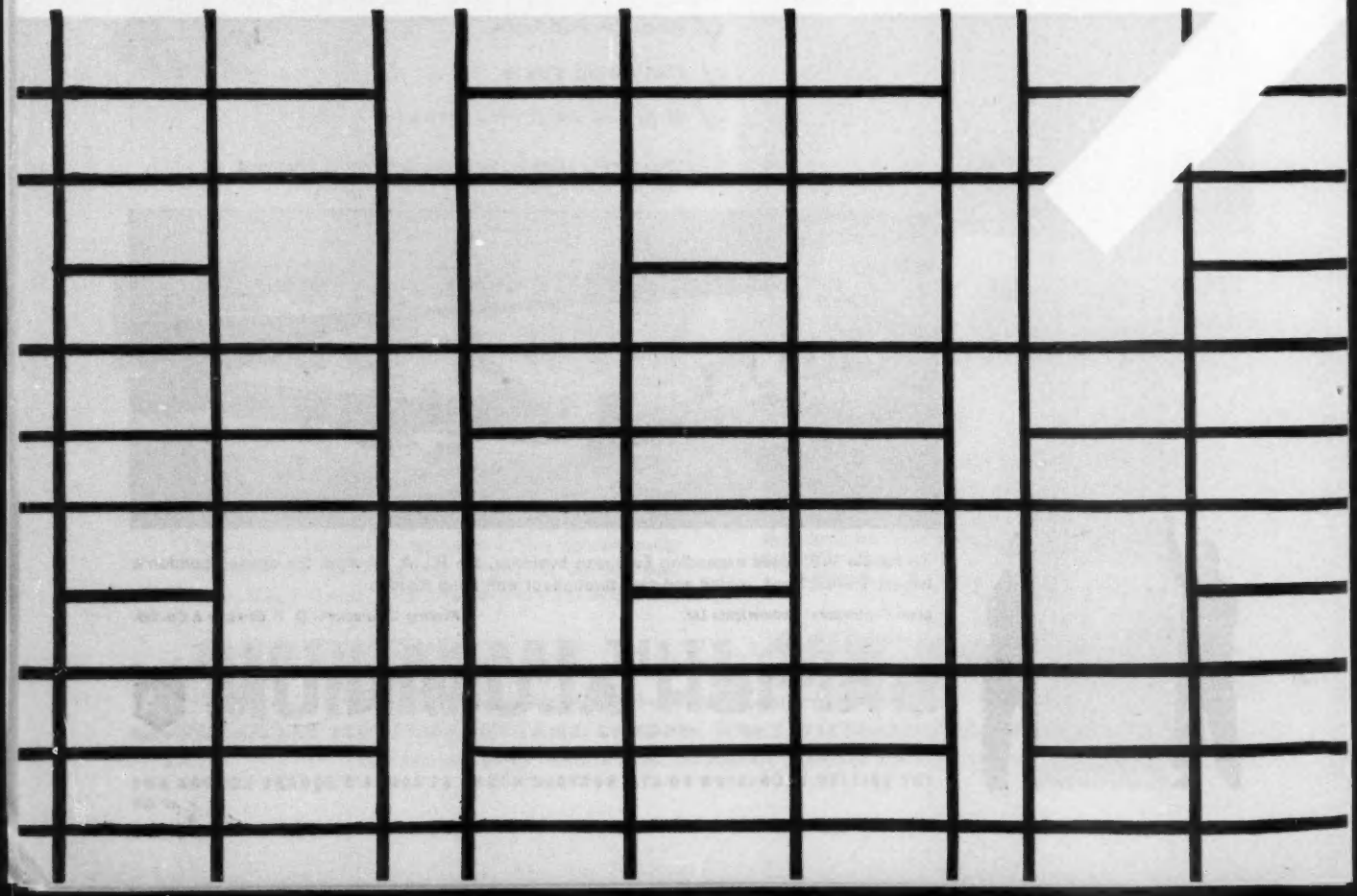


Walls of light come to life with 5 new 'Insulight'



Now the modern designer can use Pilkingtons' 'INSULIGHT' Hollow Glass Blocks to build walls of light which add as much to the appearance of a building as they add to its efficiency. New 'INSULIGHT' Hollow Glass Blocks provide the elements for an unlimited variety of design patterns and, of course, these new blocks retain all the well-tried benefits of heat and sound insulation; deep light penetration; easily cleaned hygienic surfaces; fire resistance.

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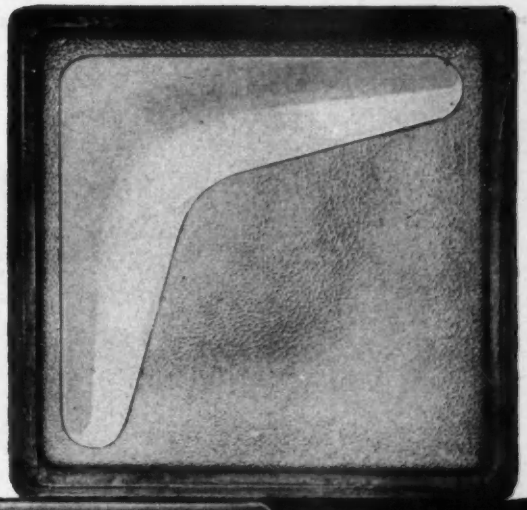
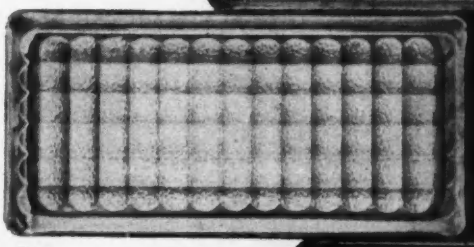
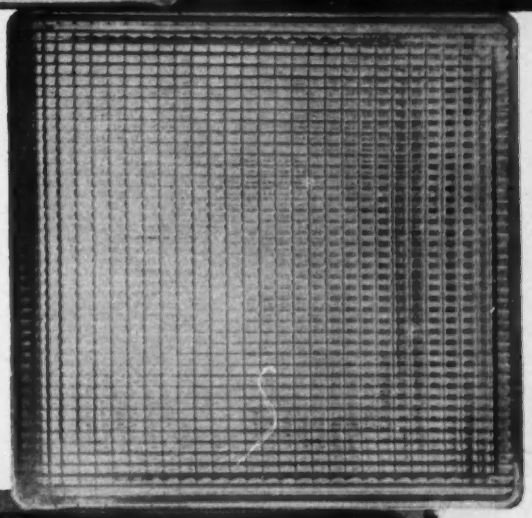


PB6



PB32

the 5 new patterns



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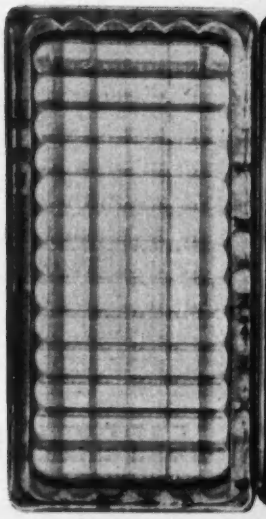

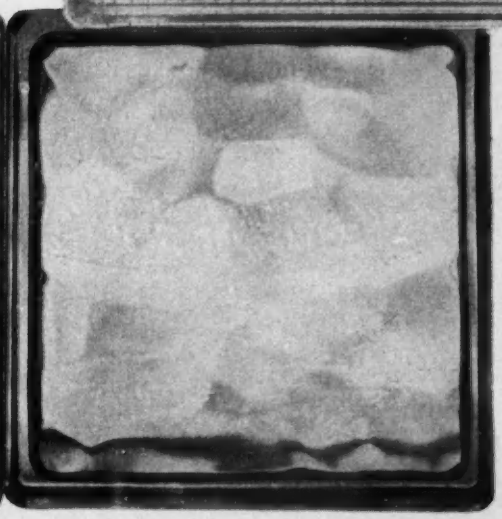

PB5

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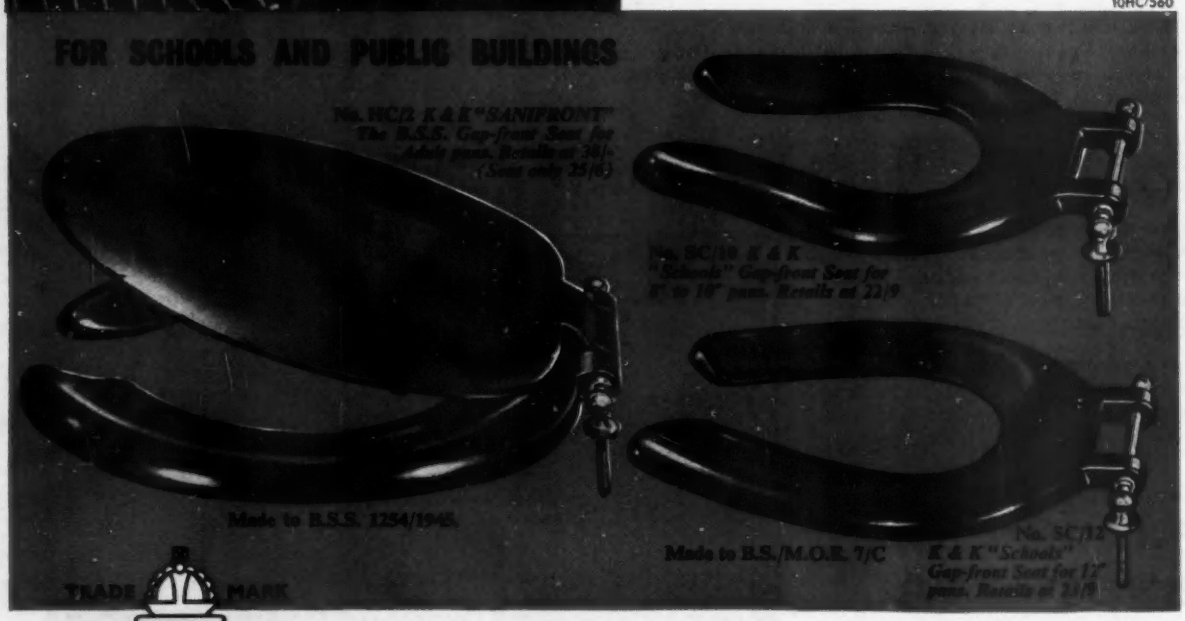

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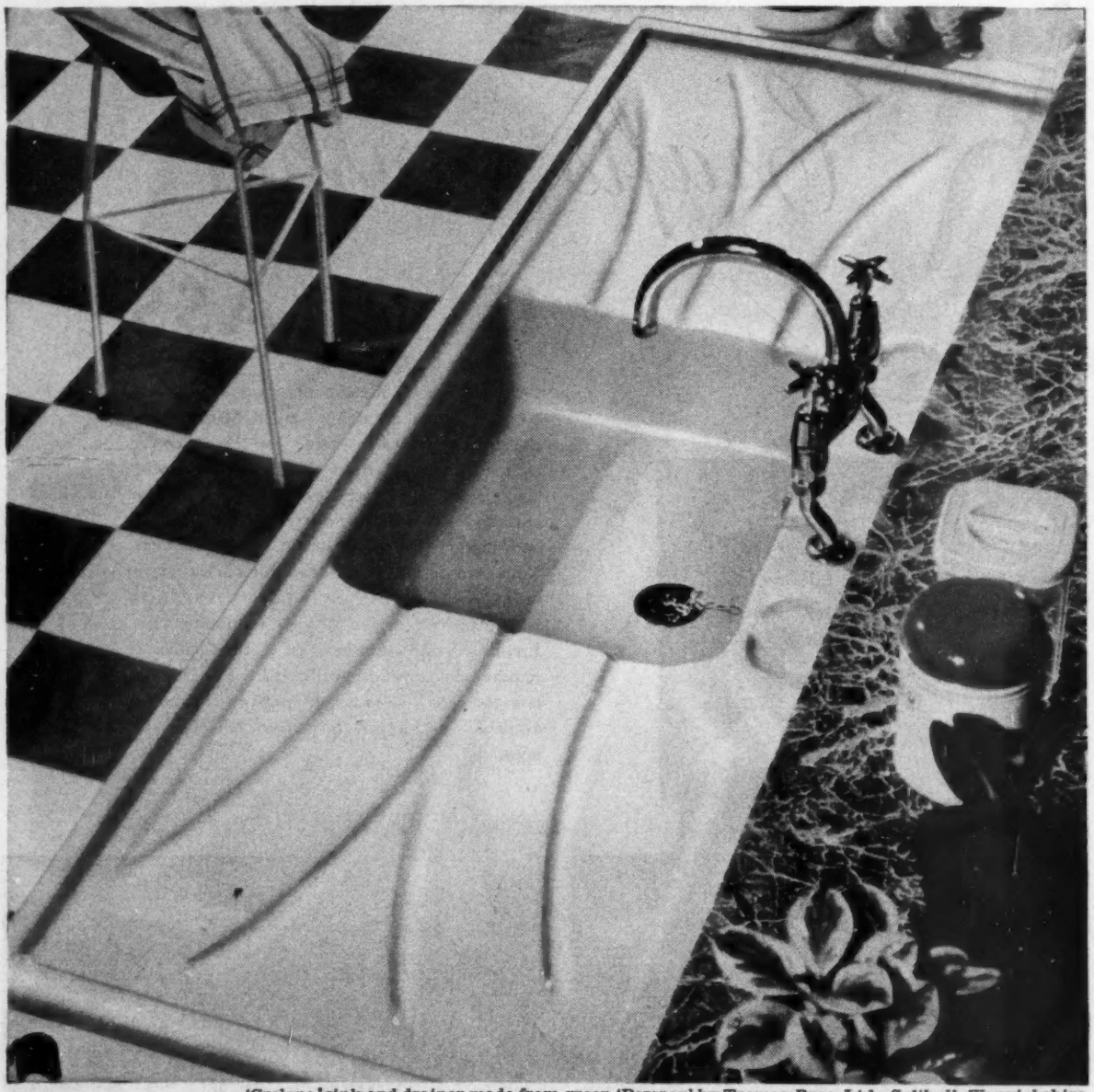

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This sink unit is colourful, durable and lightweight—it's made from 'Perspex'

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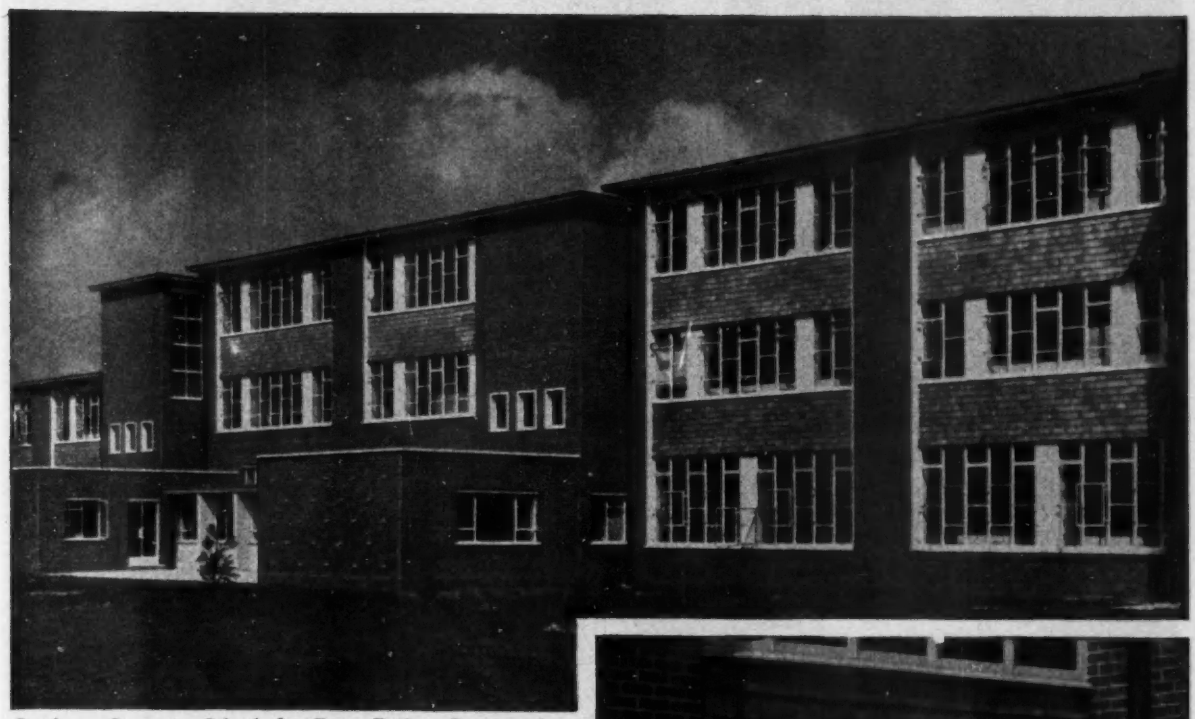

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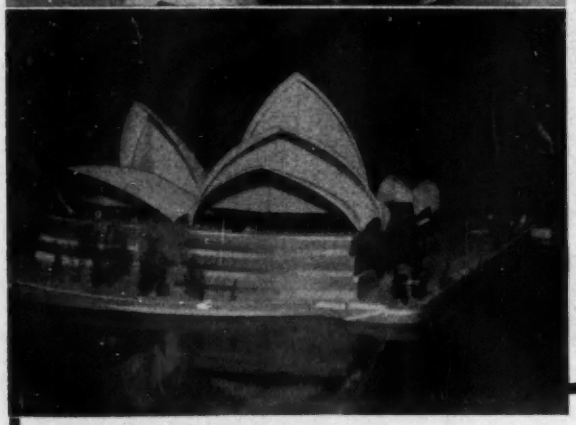

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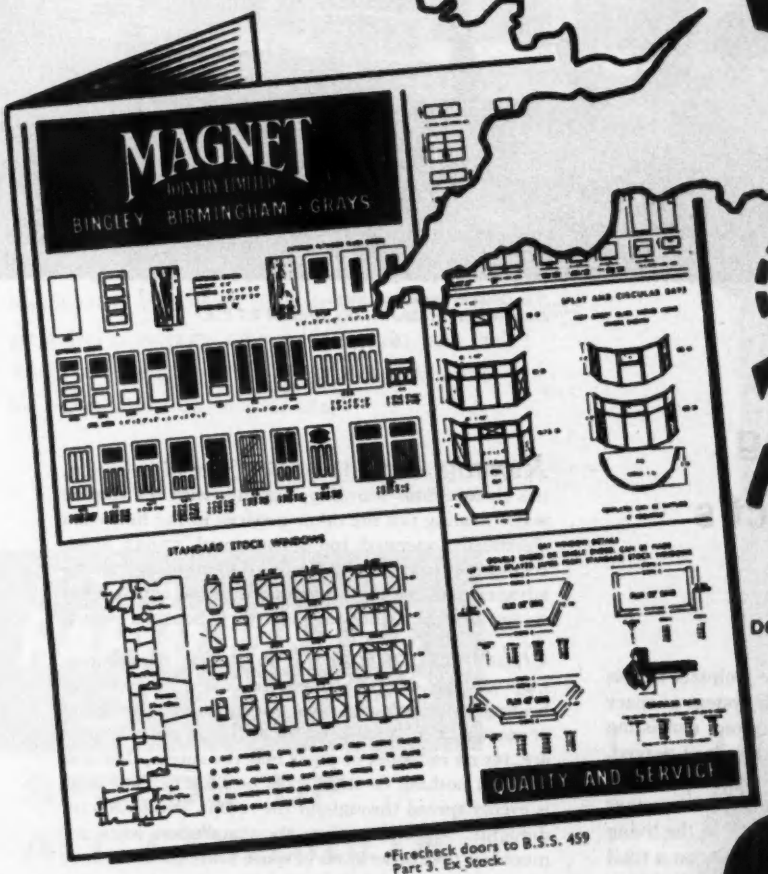

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INFORMATION SHEET **2**

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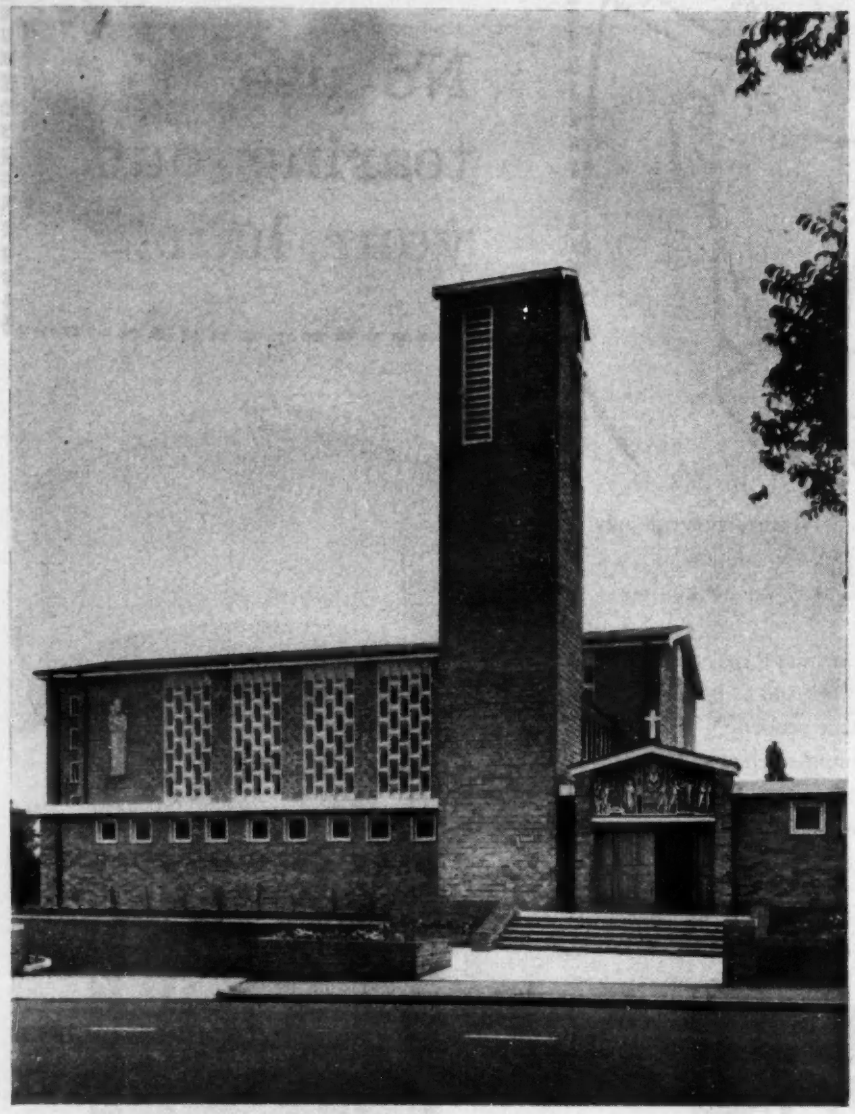

Photograph: "The Builder" Newspaper

Architects:

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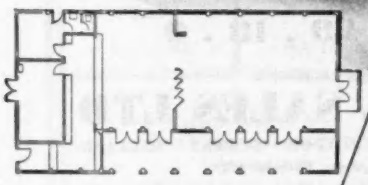

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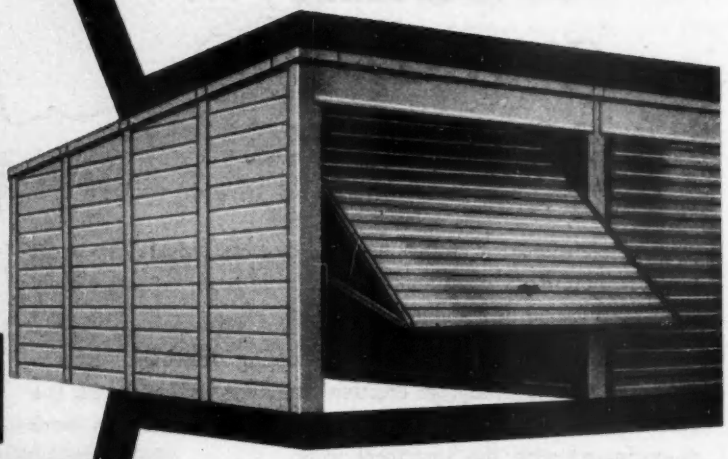

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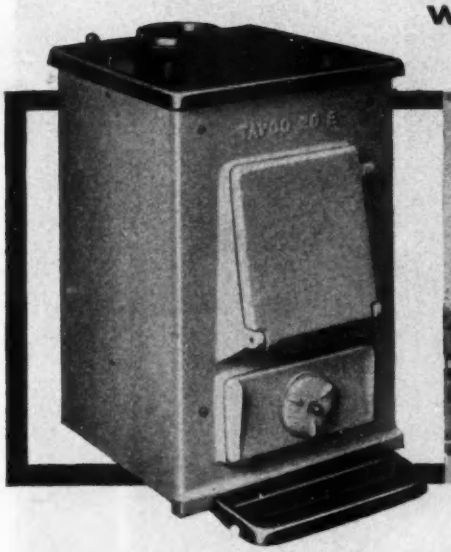

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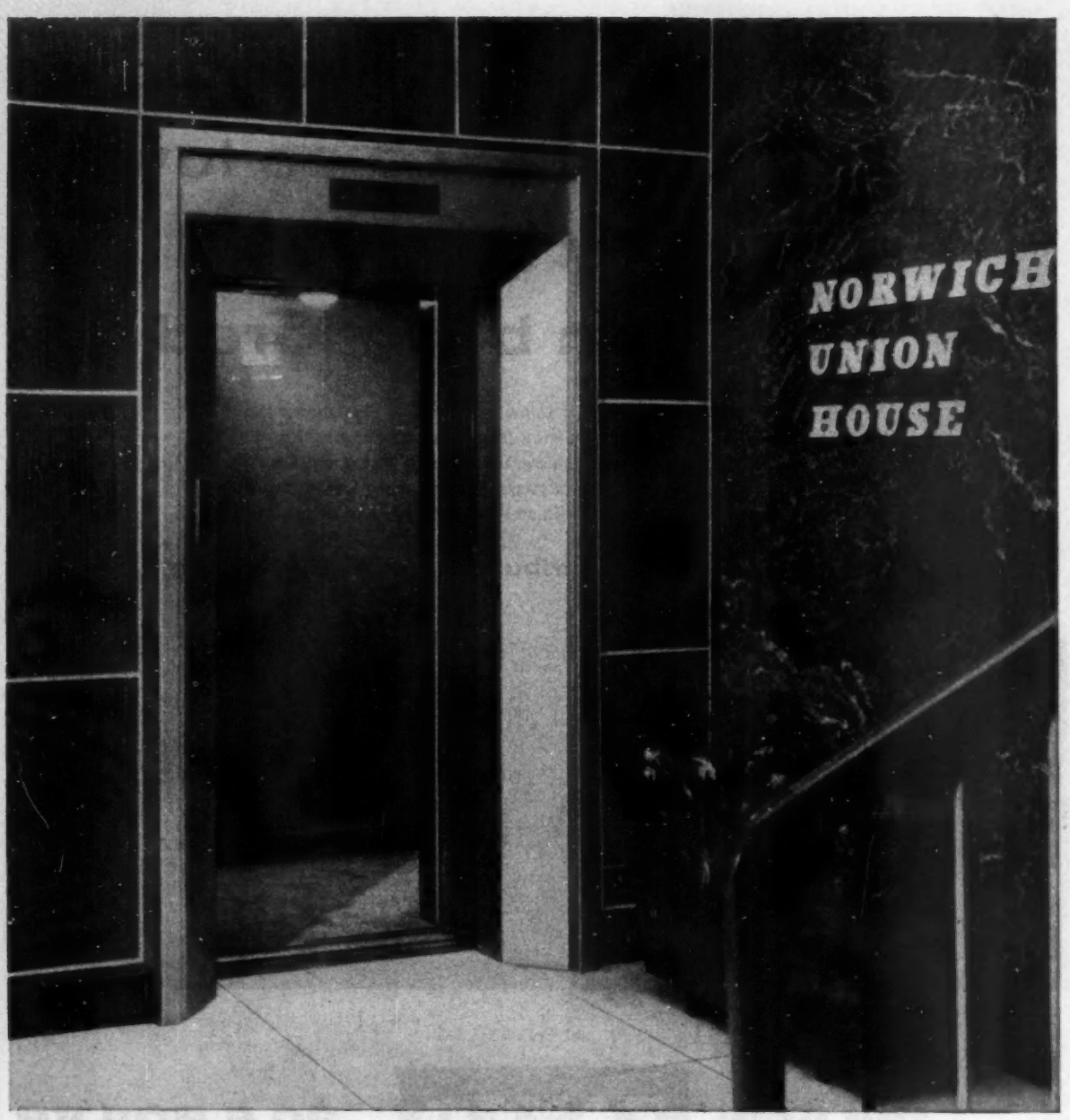

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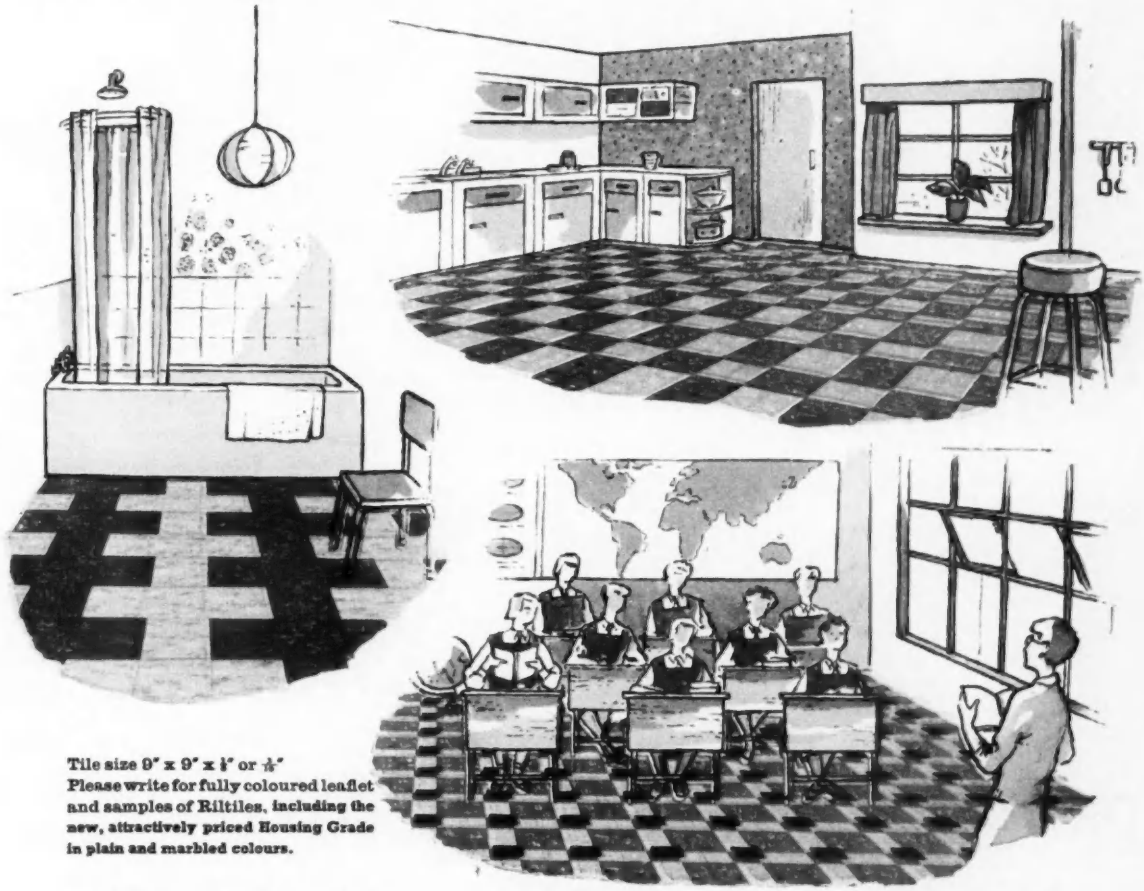

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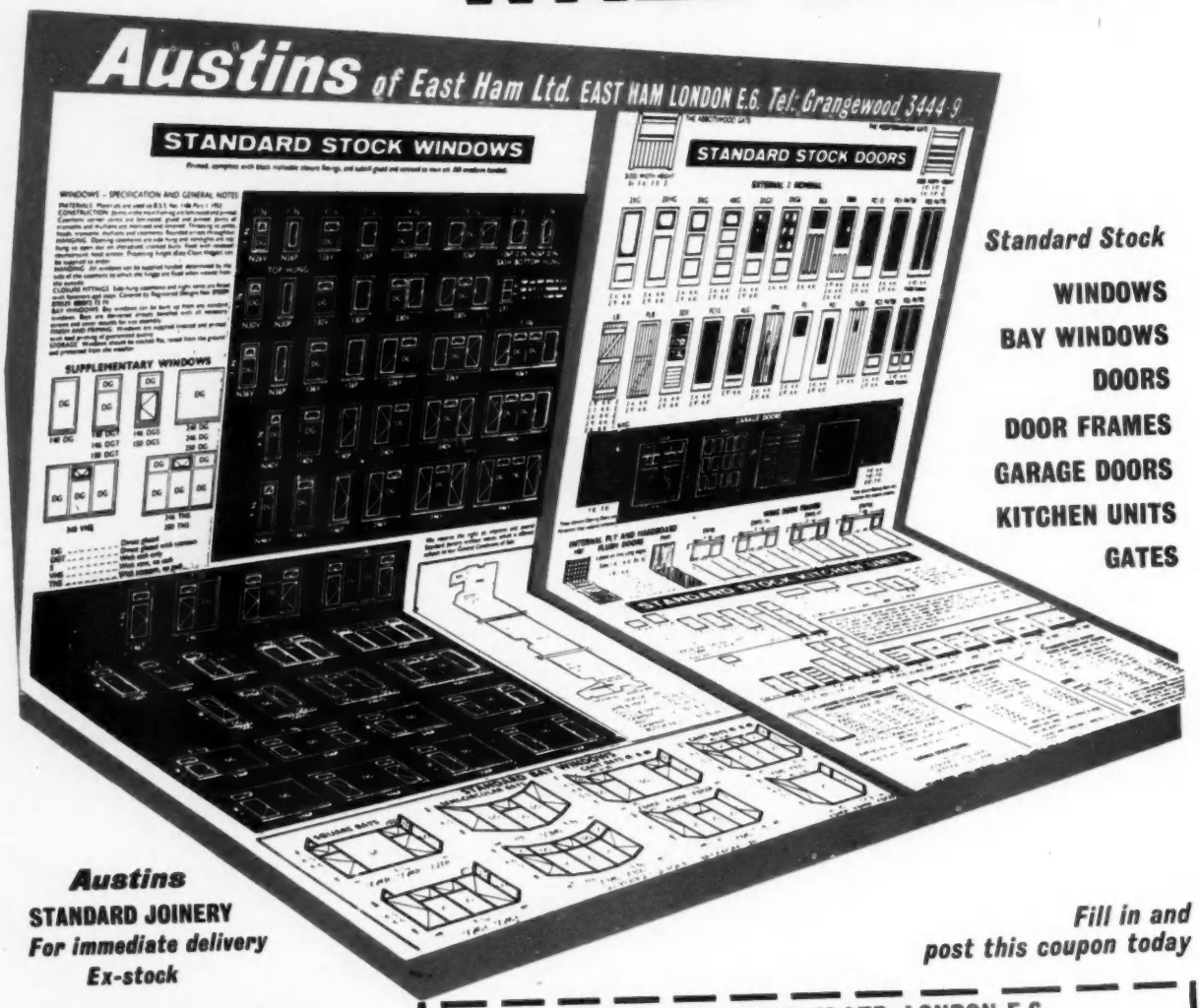

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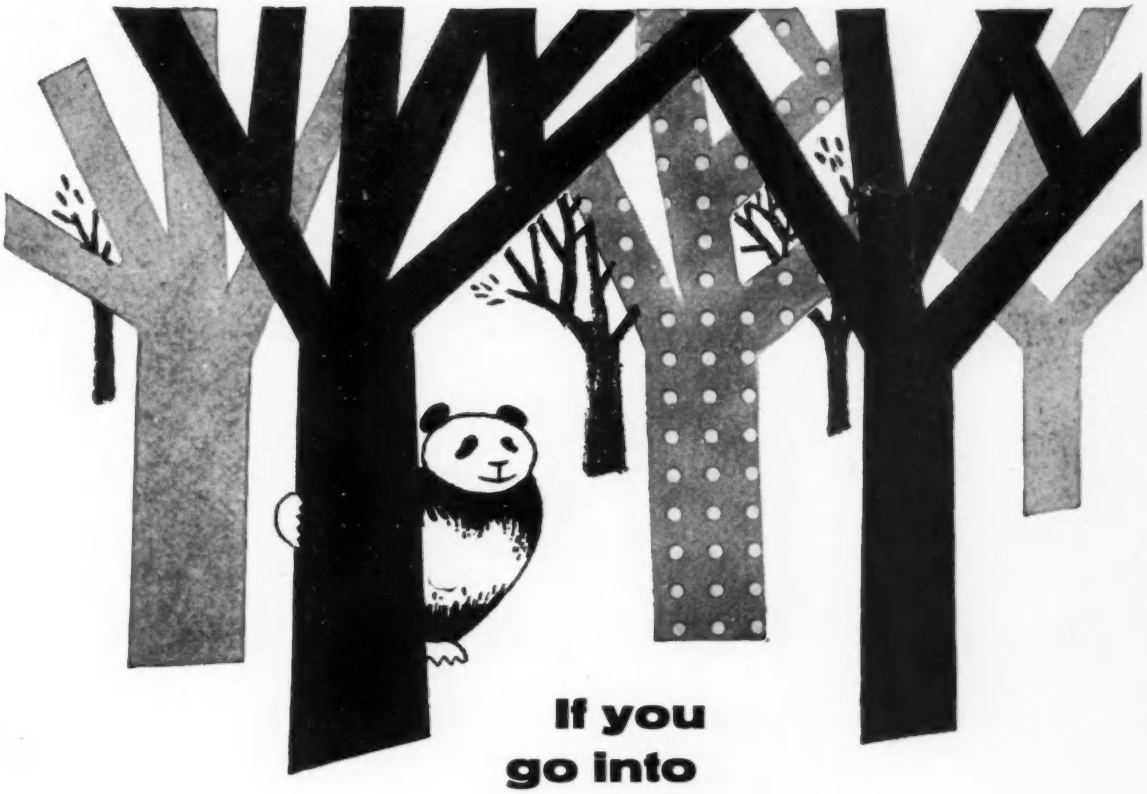

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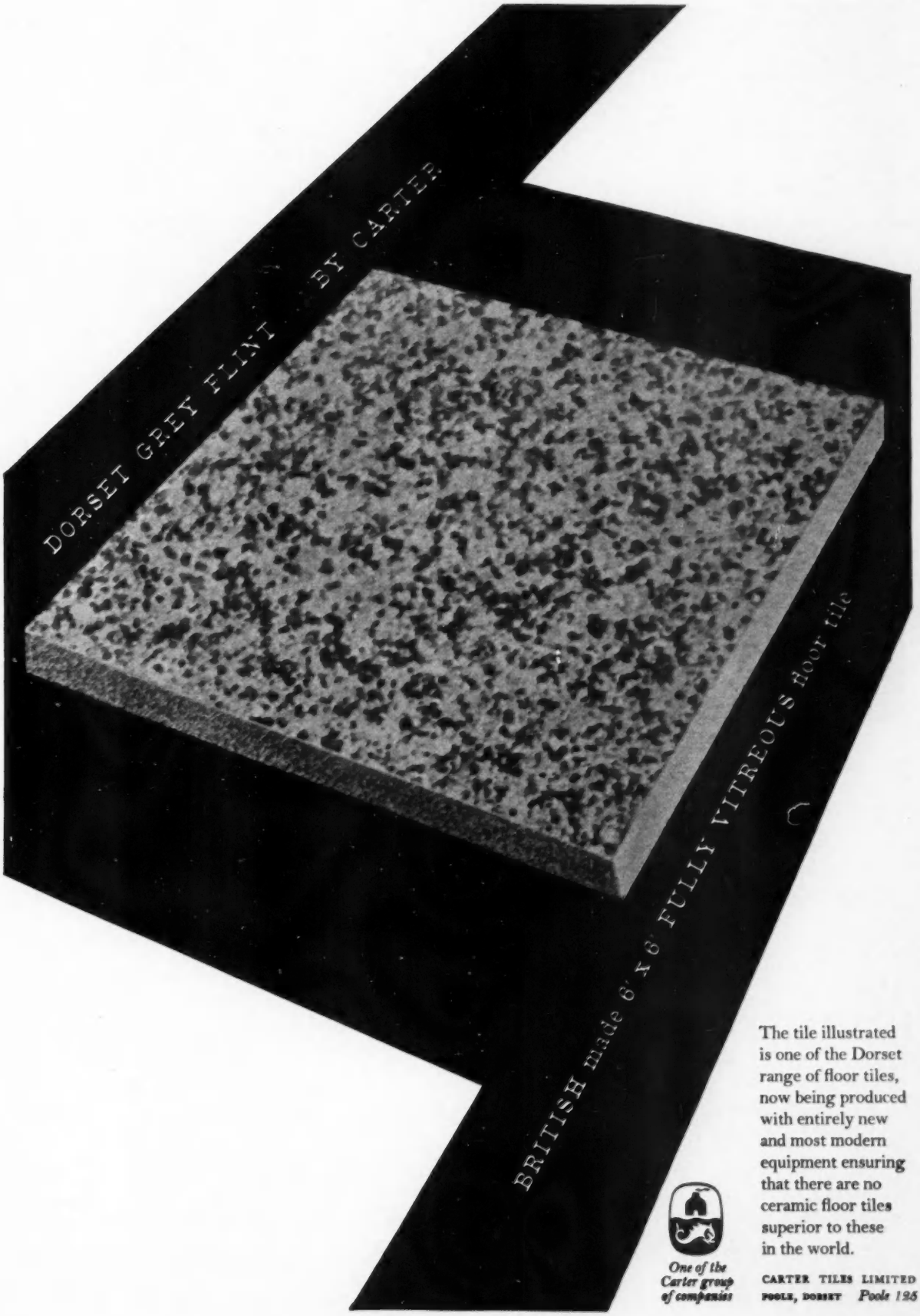

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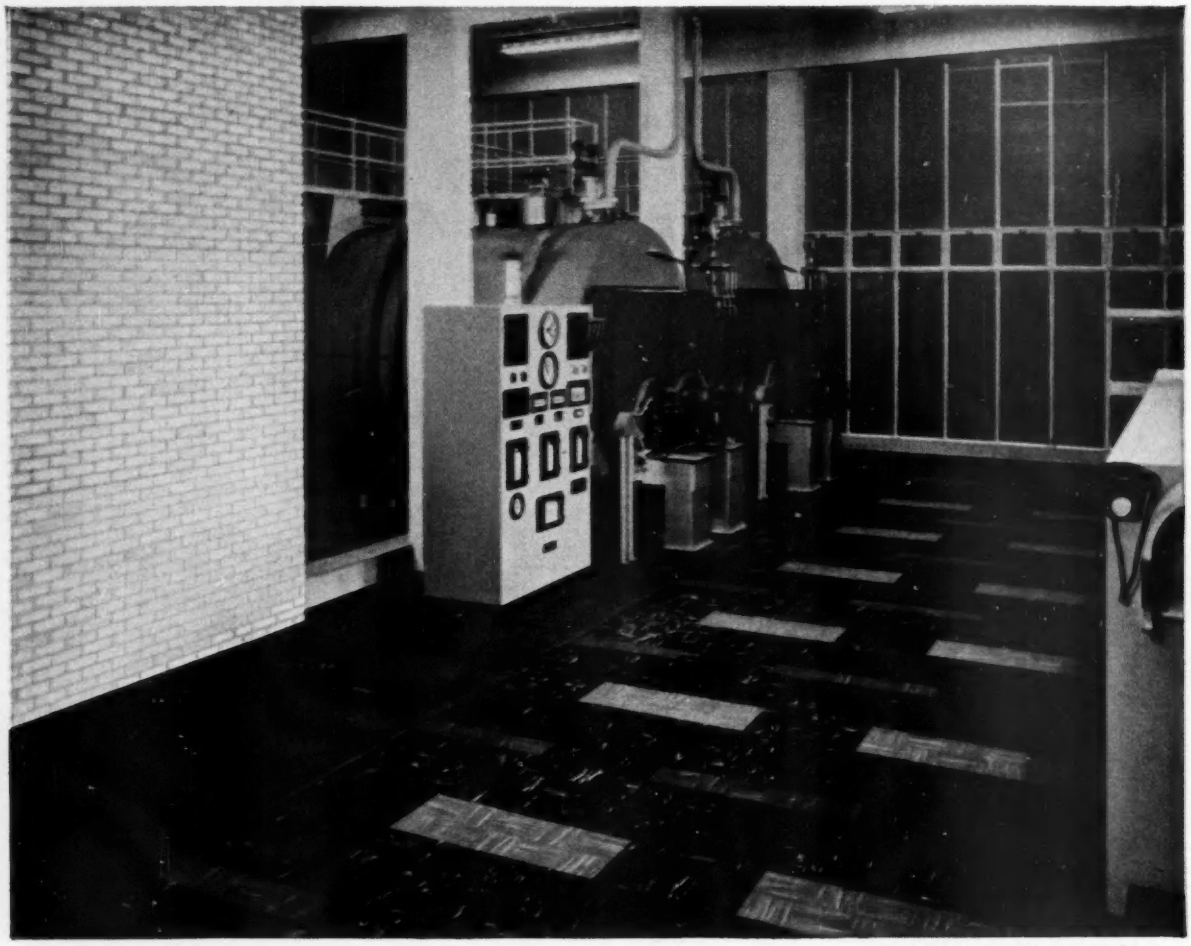

Architects: Sir John Burnet, Tait & Partners

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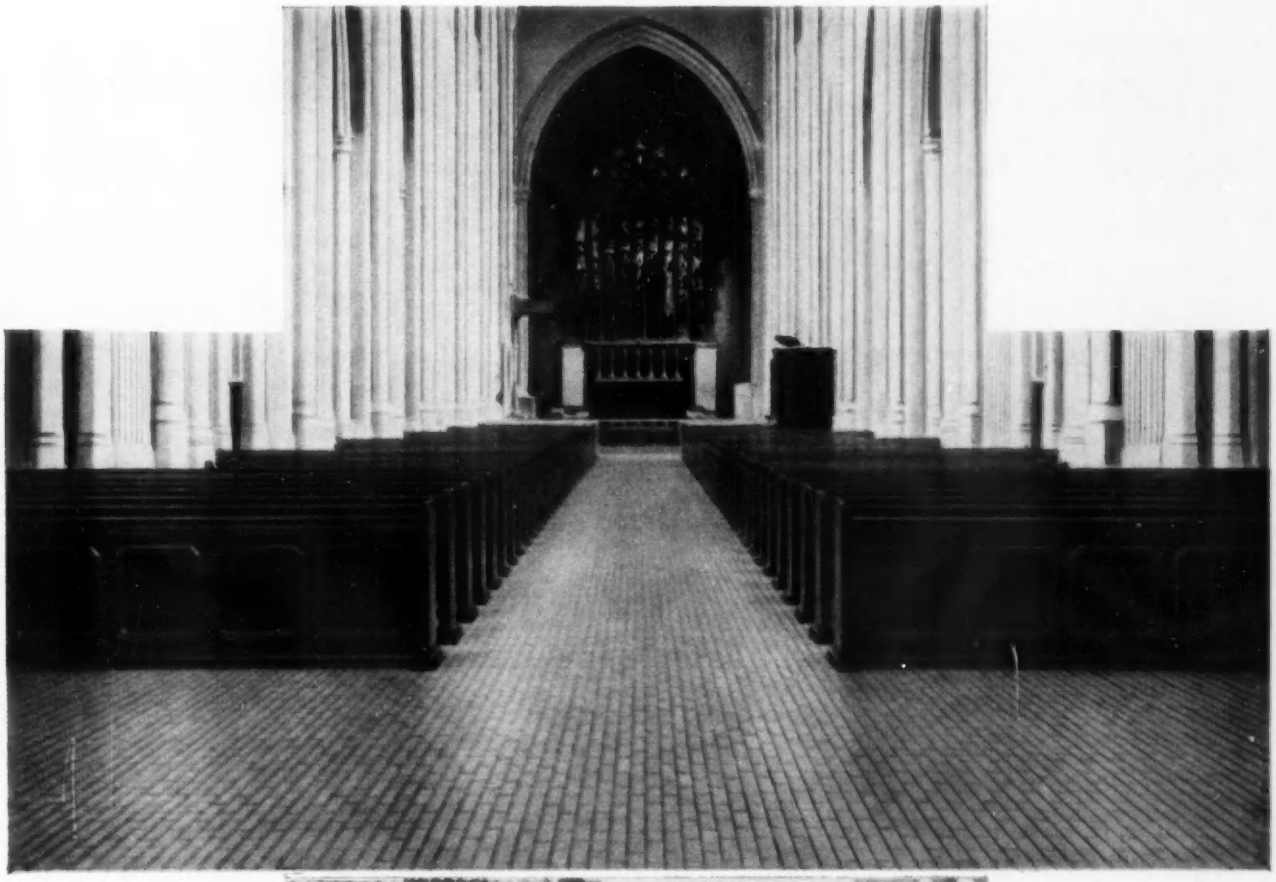

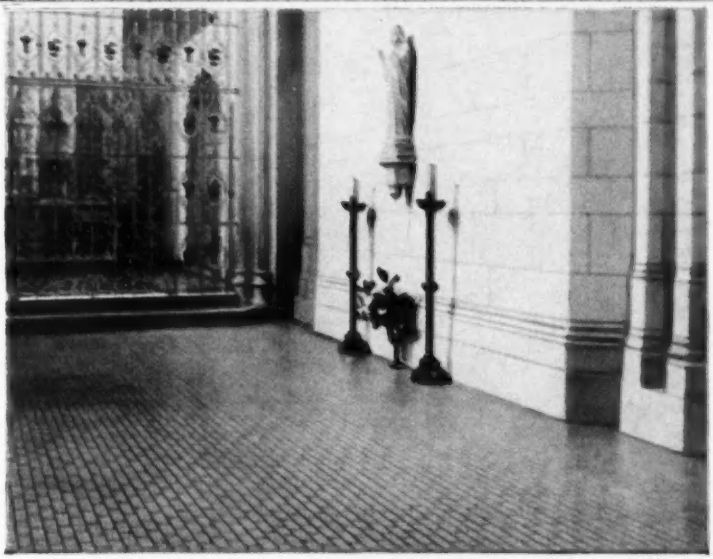

Architect
Romilly B. Craze of Milner & Craze, FF.R.I.B.A.

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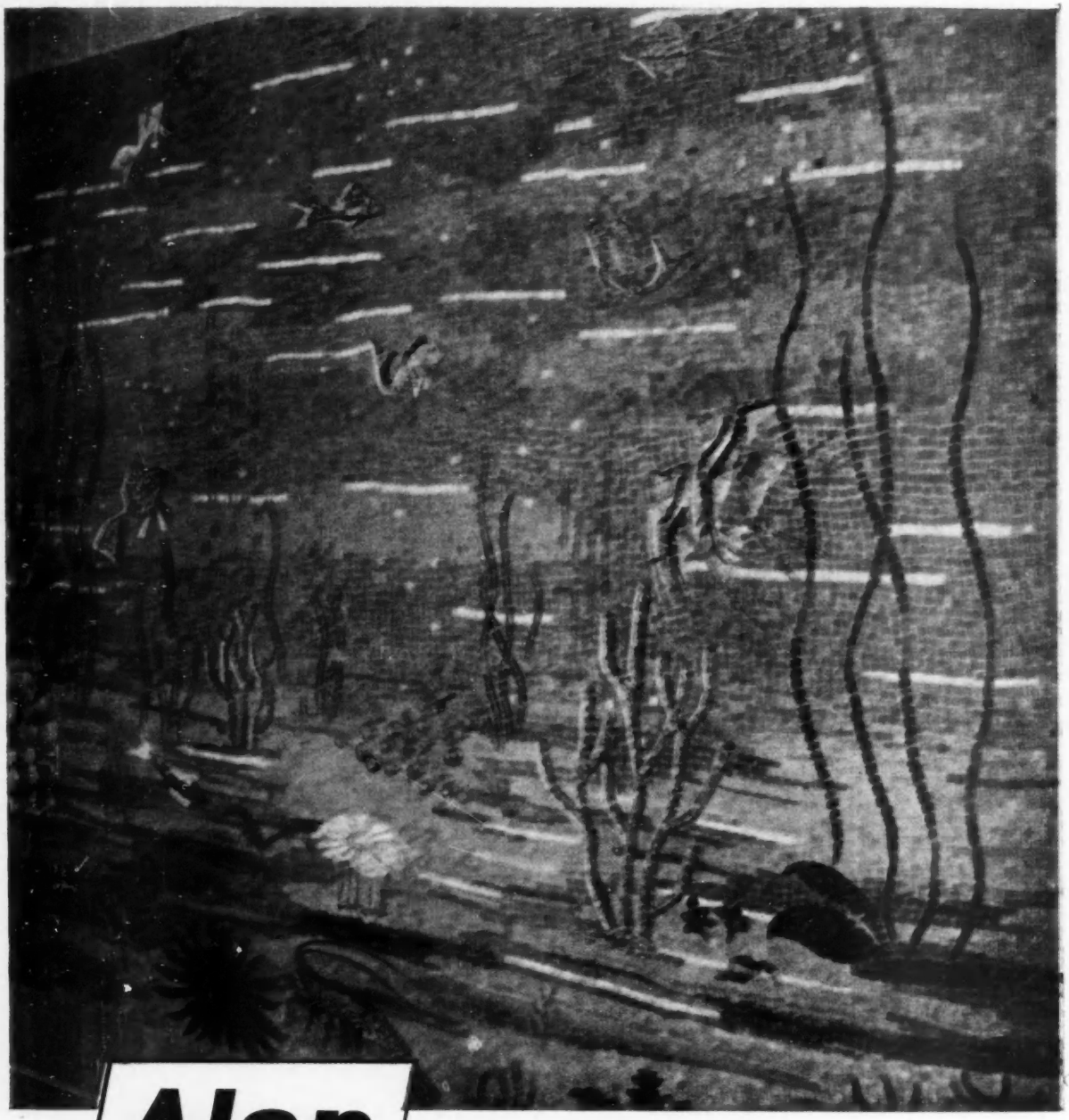

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Old Change House in the City, built for the Bernard Sunley Investment Trust Ltd., incorporates 'Continental' aluminium windows made by THE CRITTALL MANUFACTURING CO. LTD. *Architect: Theo. H. Birks,* F.R.I.B.A.

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The windows of today and tomorrow made of ALCAN aluminium are better than ever before. In their natural clean finish, or colourfully anodized, they will present no problem of rust and lessen the cost of maintenance.

ALCAN

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ALCAN aluminium means:

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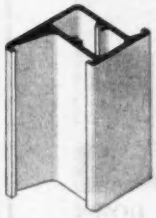
- *One-piece hollow extruded sections made to intricately designed shapes never possible before*
- *Windows opening up new horizons in planning and design but right down-to-earth in sheer practicality*

To the building owner or occupier

ALCAN aluminium means:

- *No painting necessary*
- *No rusting*
- *Resistance to decay and corrosion*
- *No warping*
- *No needless weight—windows that are always easy to open*
- *Reduced maintenance cost throughout the life of the building*

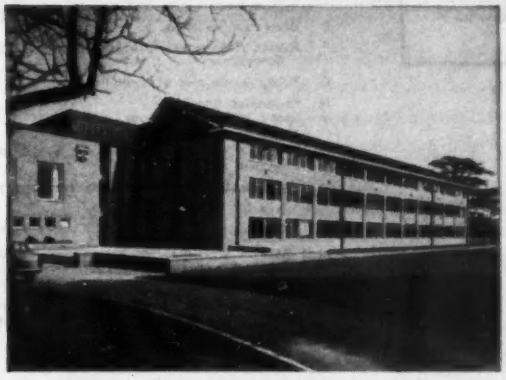
The advantages of aluminium are at their greatest with ALCAN aluminium. ALCAN, one of the world's largest producers, are specialists in the ingot field. To manufacturers, ALCAN specialization means a constant, reliable source of aluminium in alloy forms exactly — *consistently* — suited to precise needs. To architects and designers ALCAN specialization makes available a vast store of technical knowledge and experience ready to be applied to any project, backed up by years of fabricating technique. To the user of every aluminium product ALCAN specialization means a certainty of quality and the best value that money can buy.



A typical example of an extrusion for aluminium windows

This view of the new Physiology Building, Oxford University, clearly shows the CRITTALL *purpose-made aluminium windows. Architects: Lanchester & Lodge.*

CRITTALL *aluminium windows and doors were used in the new Glostrup Hospital, Copenhagen. Architects: Martta Ypyä, Ragnar Ypyä & Weikko Malmio.*



Purpose-made aluminium casements by THE CRITTALL MANUFACTURING CO. LTD. *were incorporated in the new Faculty of Letters Building, Reading University. Architects: Easton & Robertson.*

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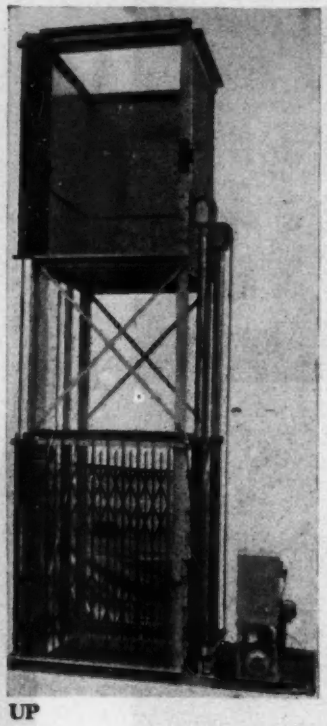

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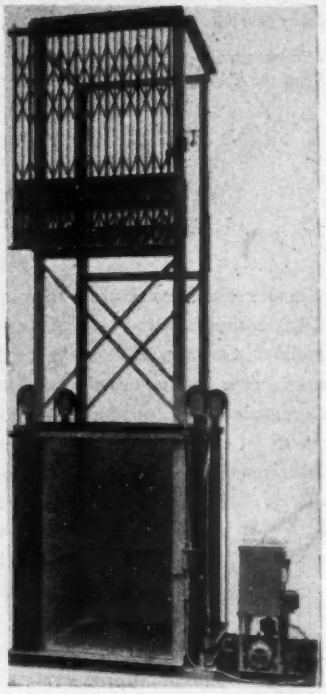

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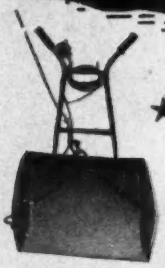

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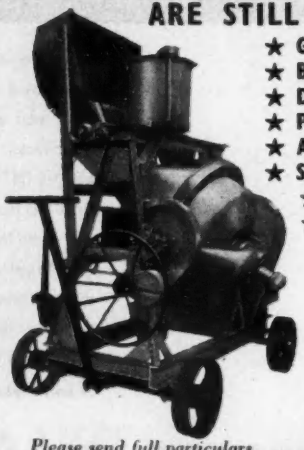

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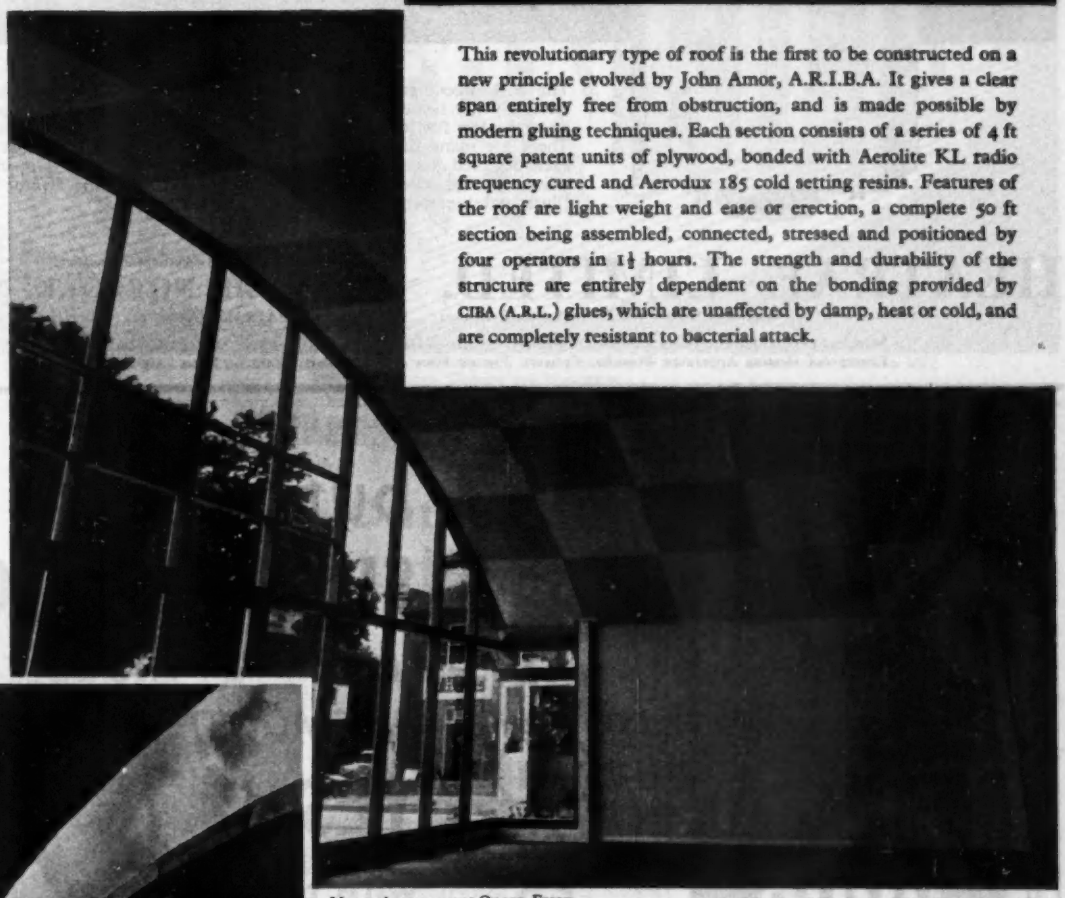

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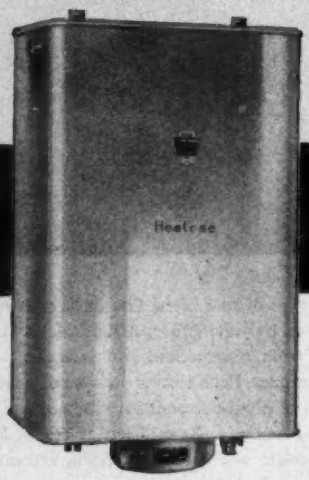

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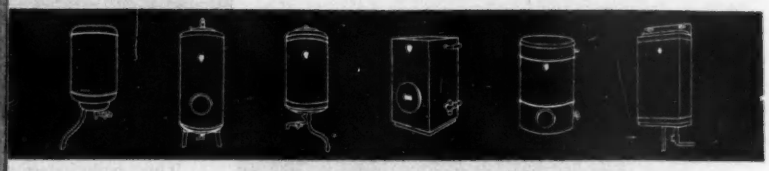

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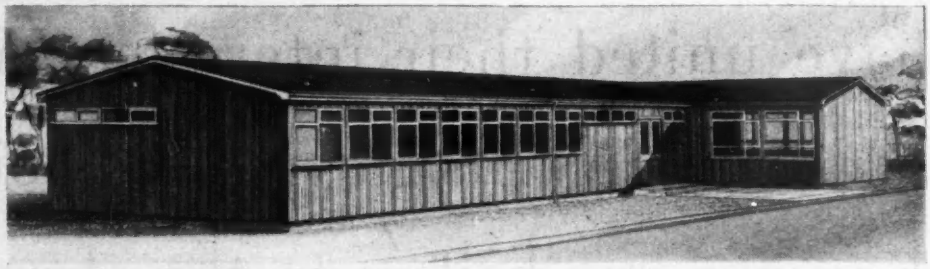

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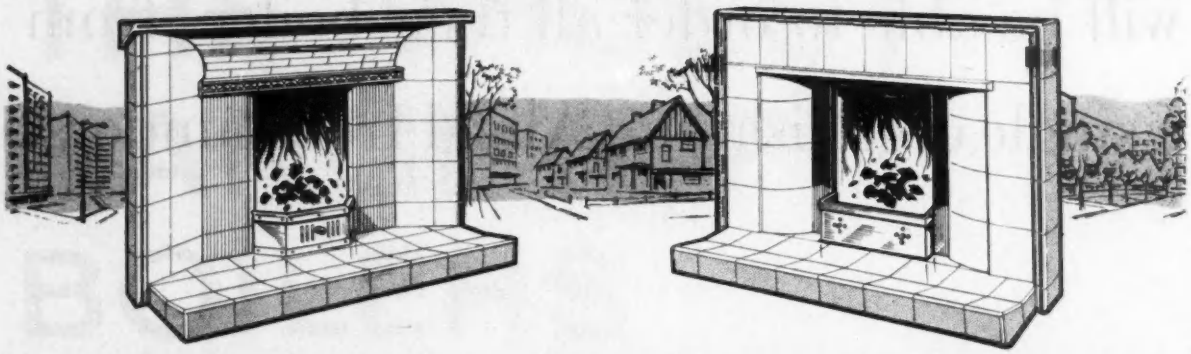

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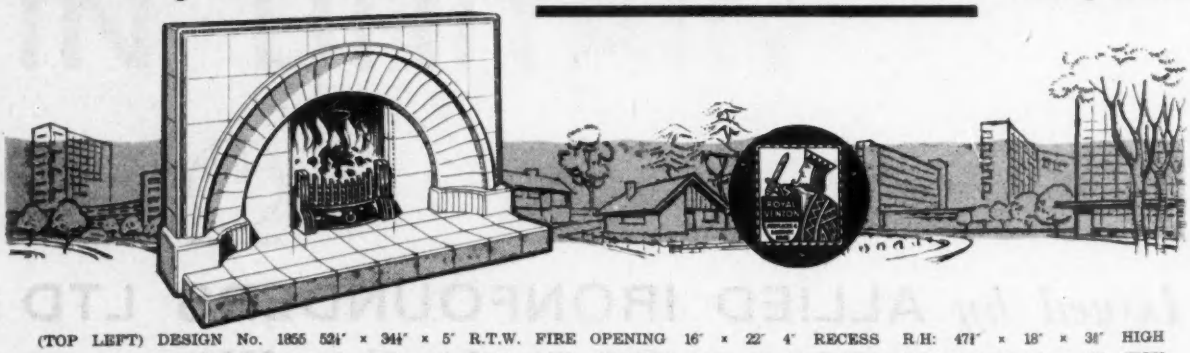

(TOP LEFT) DESIGN No. 1855 52½″ × 34½″ × 5″ R.T.W. FIRE OPENING 16″ × 22″ 4″ RECESS R.H: 47½″ × 18″ × 31″ HIGH
(TOP RIGHT) DESIGN No. 1852 46″ × 33″ × 6″ R.T.W. FIRE OPENING 16″ × 22″ 4″ RECESS R.H: 45½″ × 16″ × 31″ HIGH
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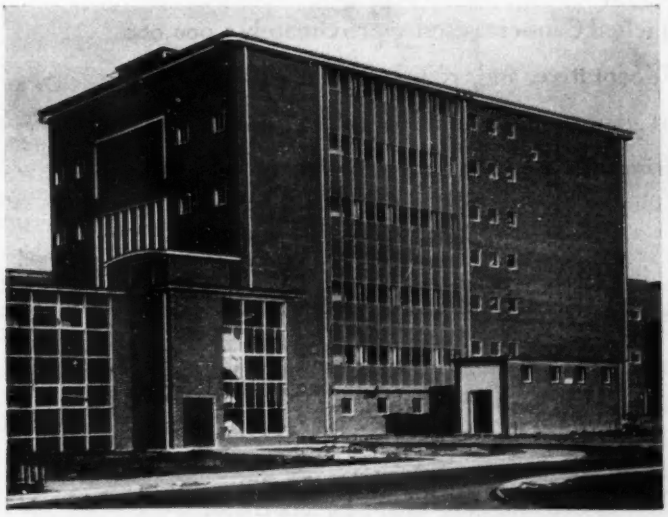

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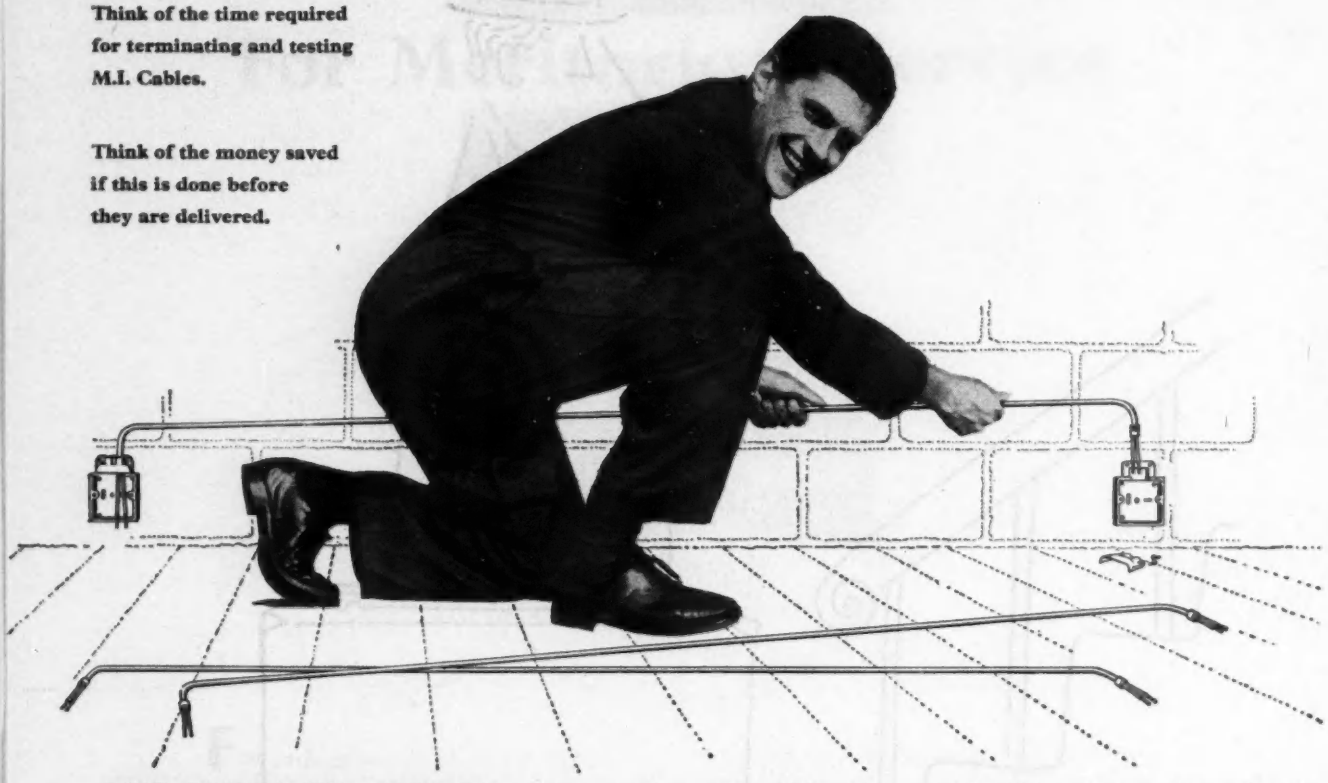

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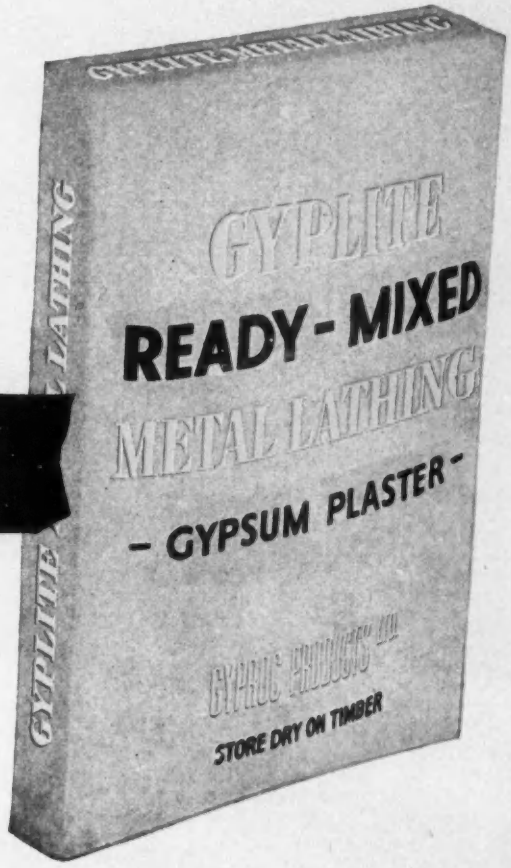

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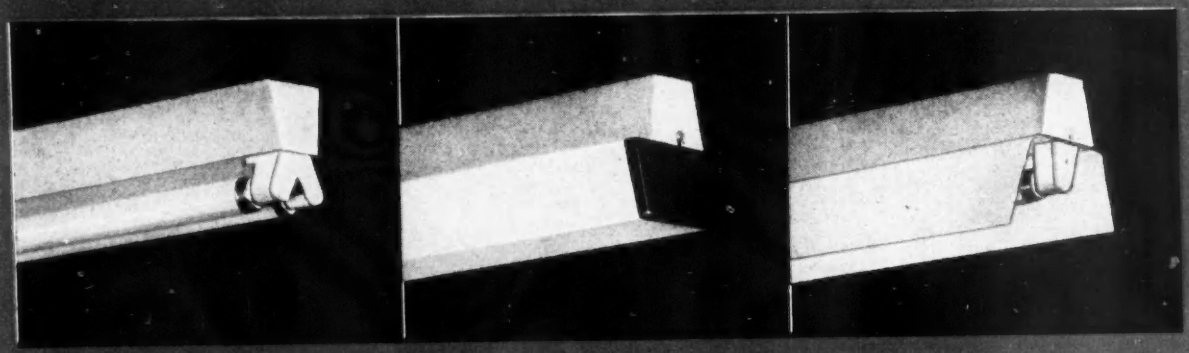

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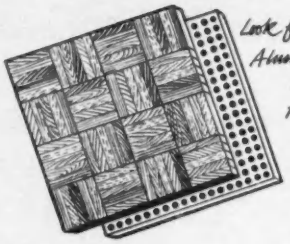
ALUFLOOR CAN BE PRODUCED FROM ANY HARDWOOD TO ARCHITECT'S SPECIFICATIONS *British Patent No. 746791*



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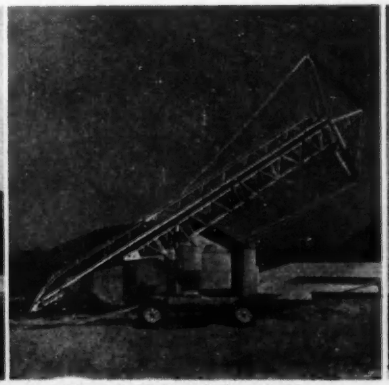
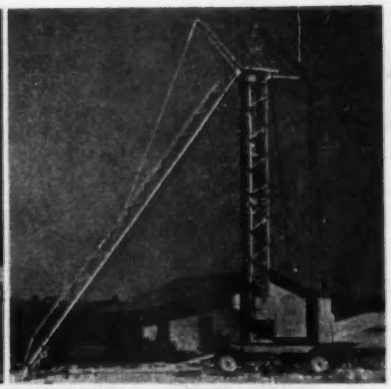


"Mast & Jib" unit is raised . . .



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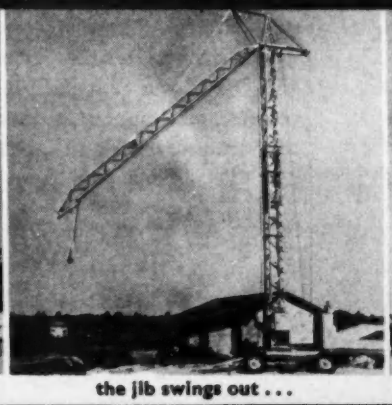
the inner mast begins to telescope . . .



the jib swings out . . .

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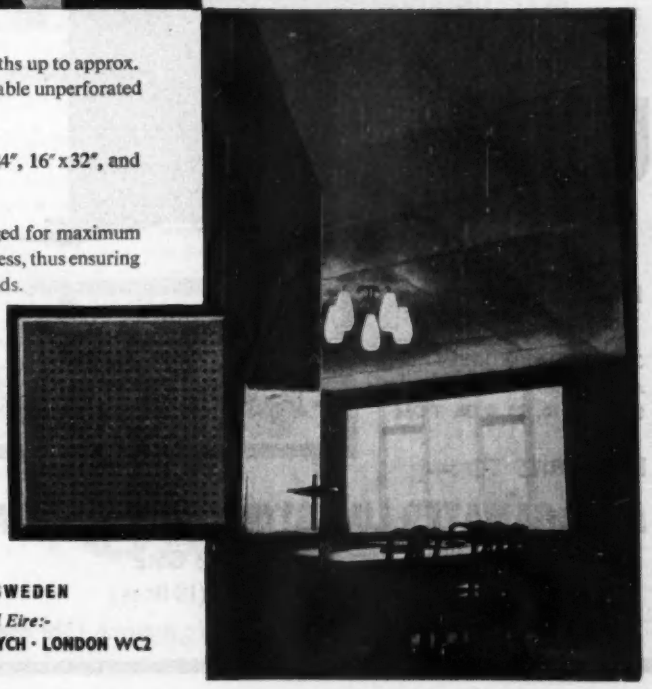

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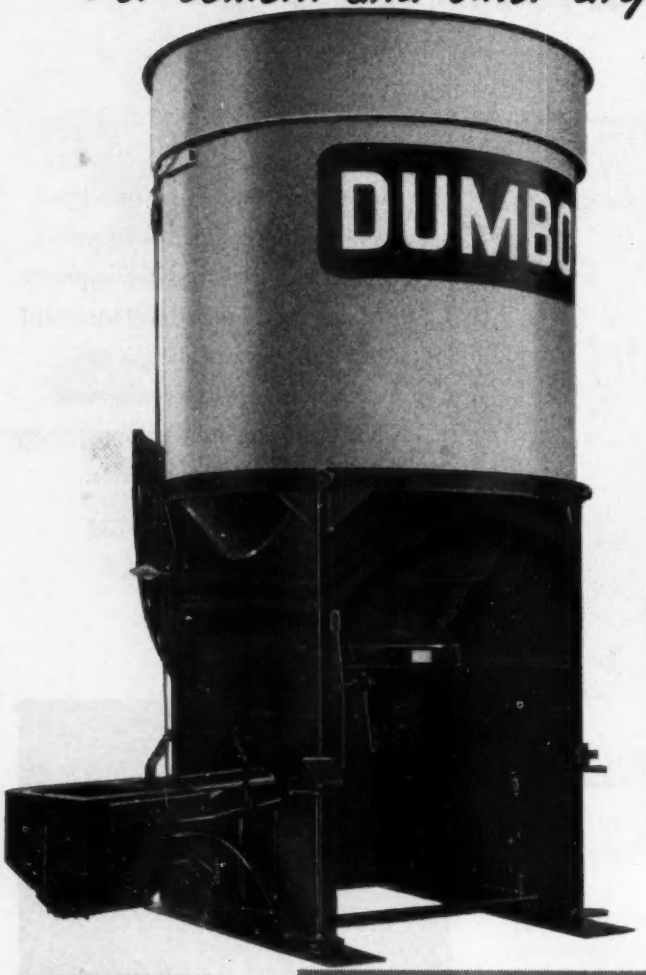

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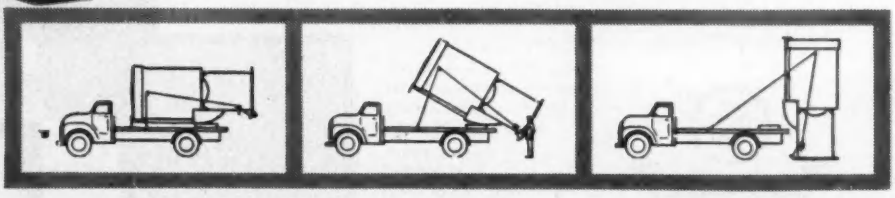

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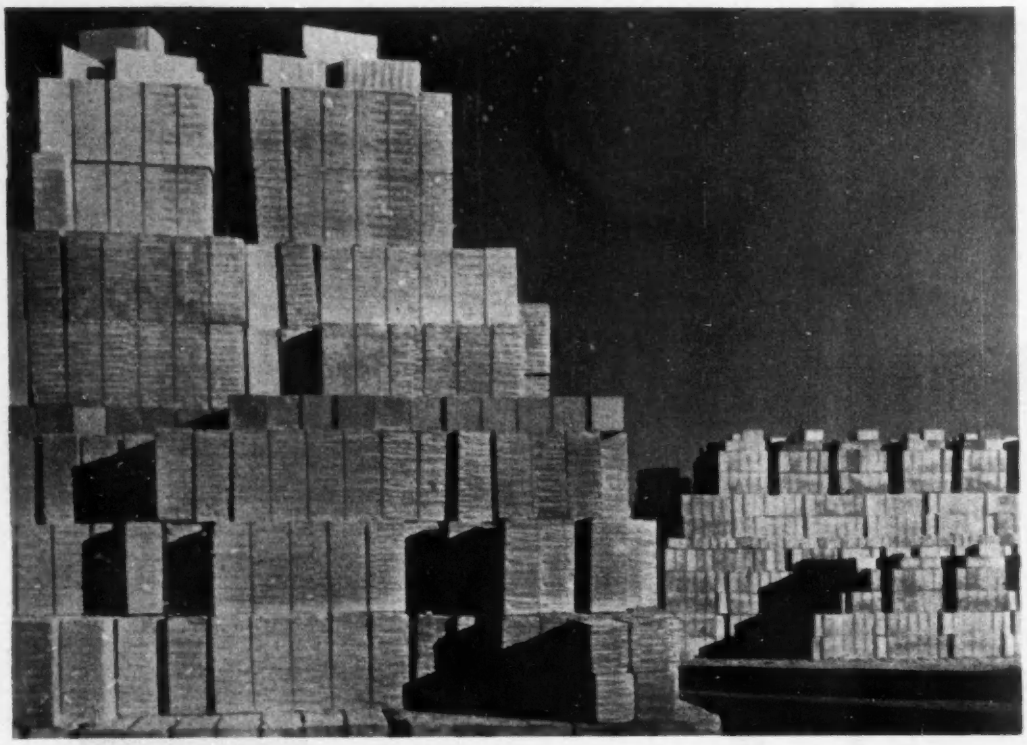

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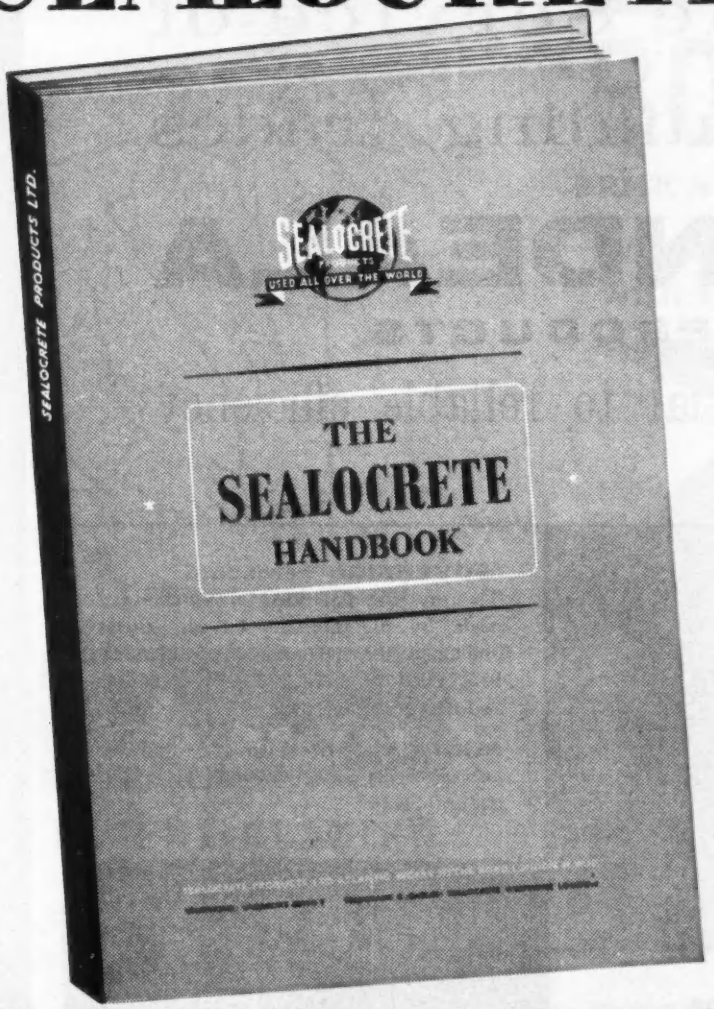

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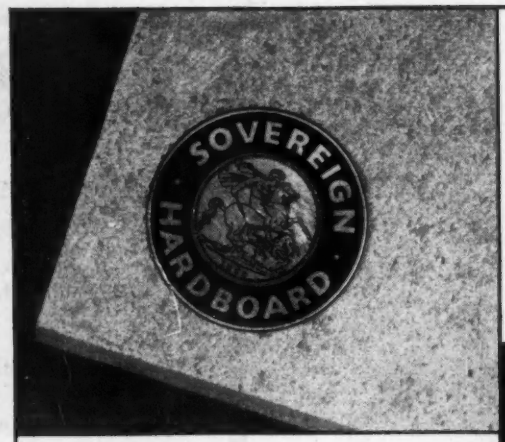

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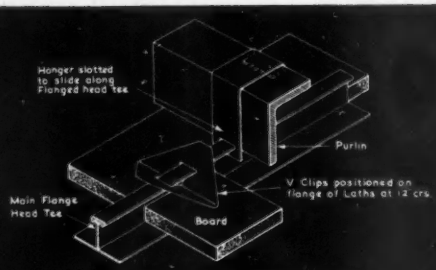

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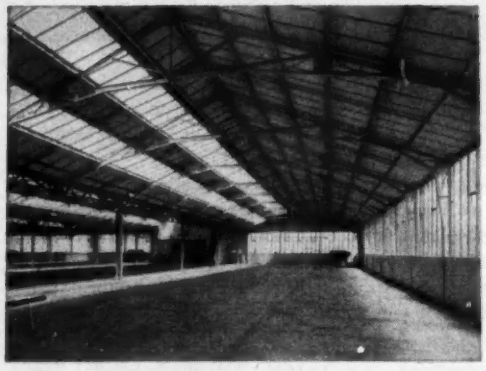

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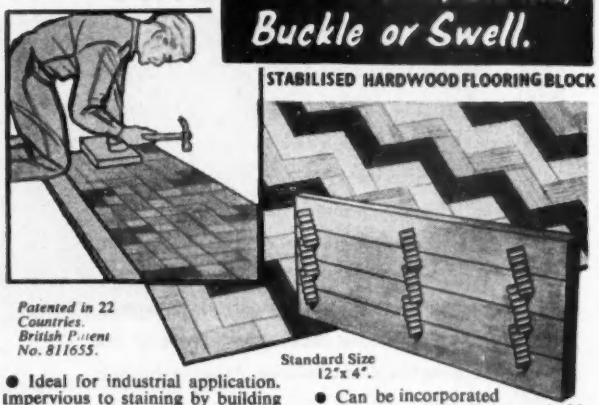

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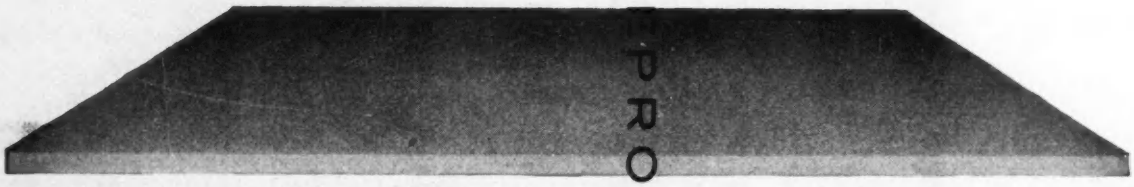

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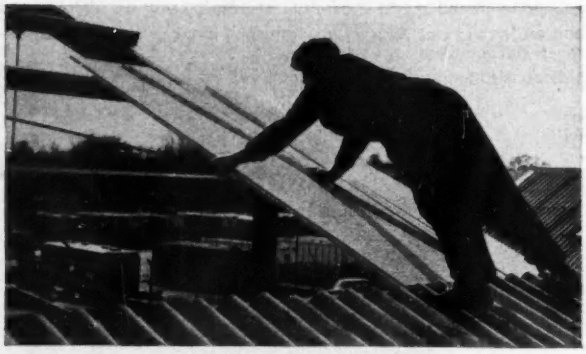

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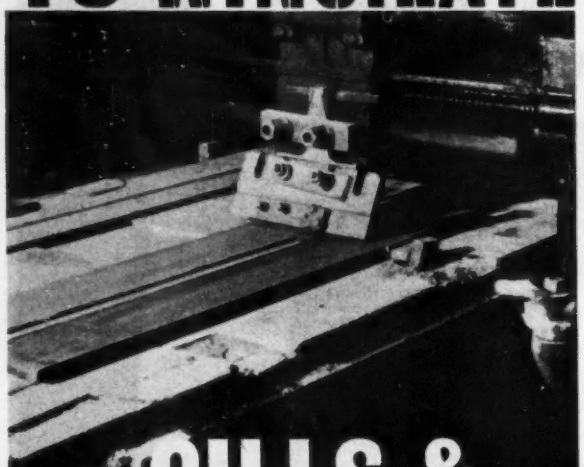

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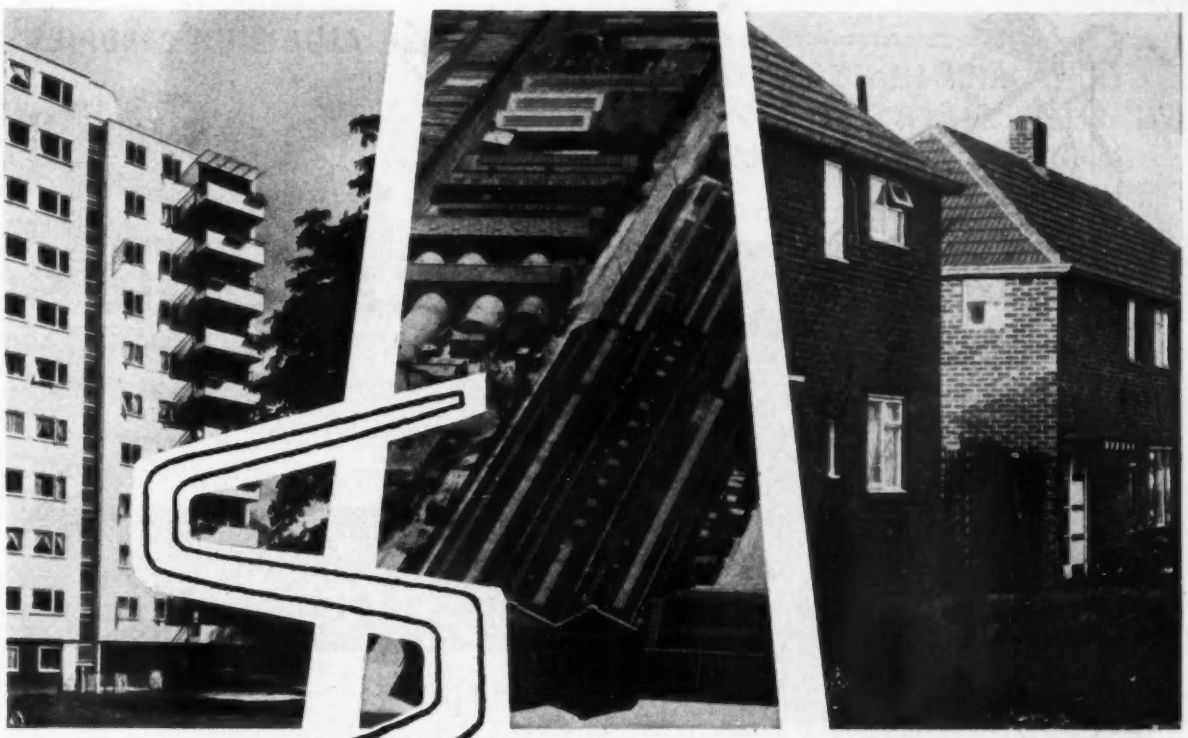

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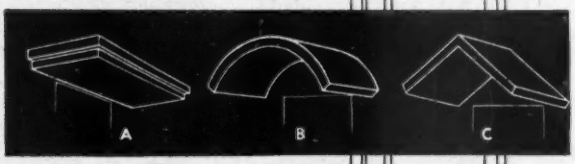

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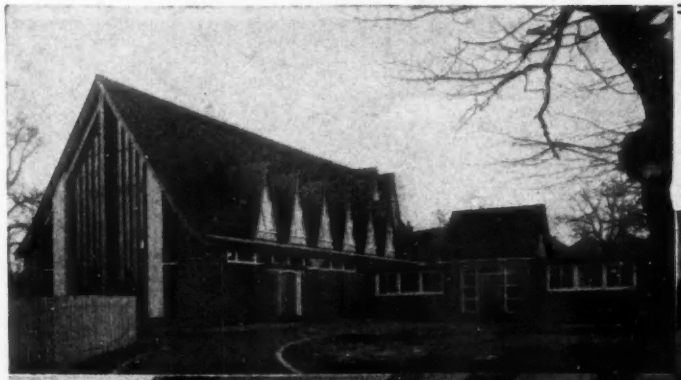

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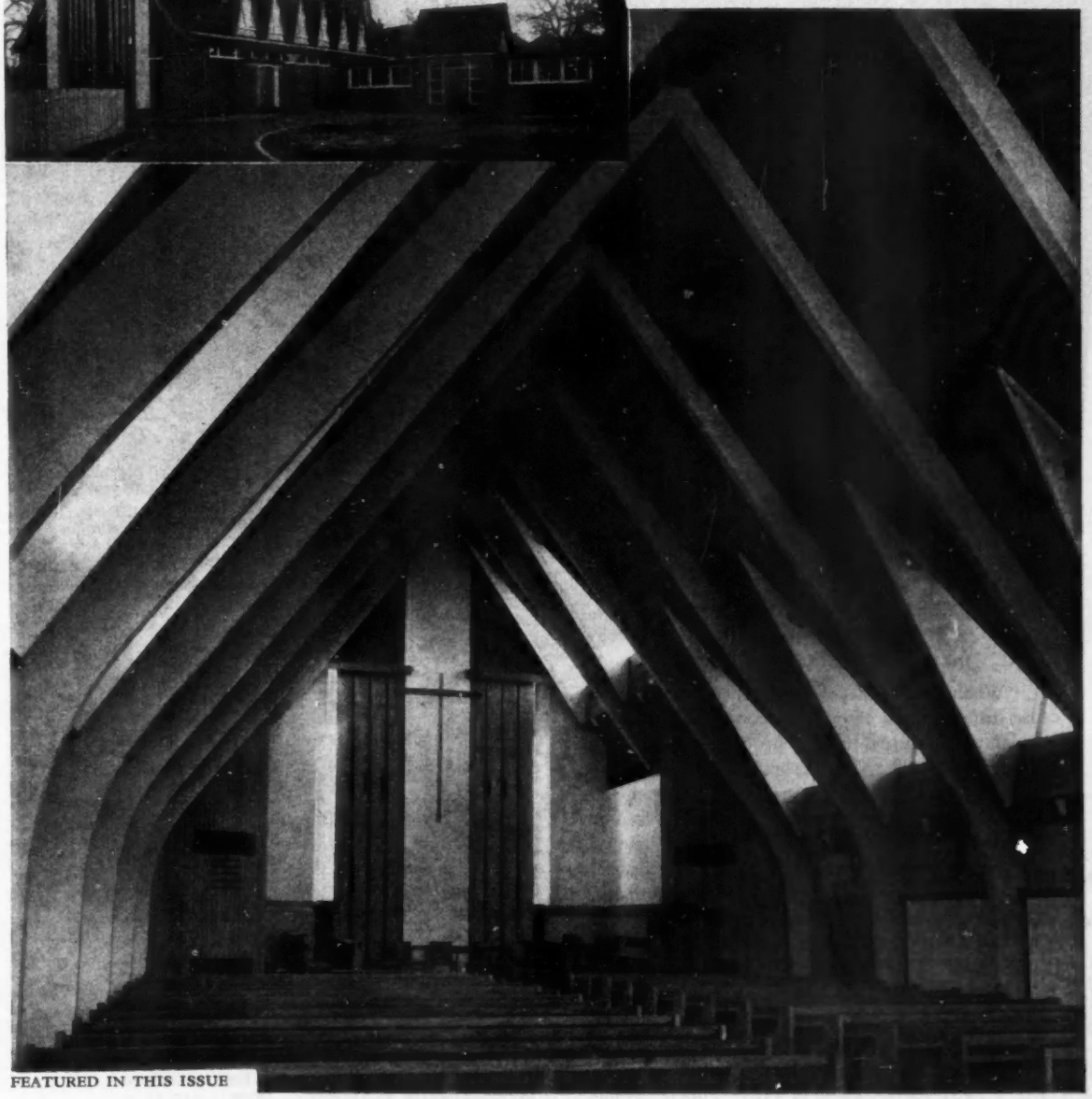

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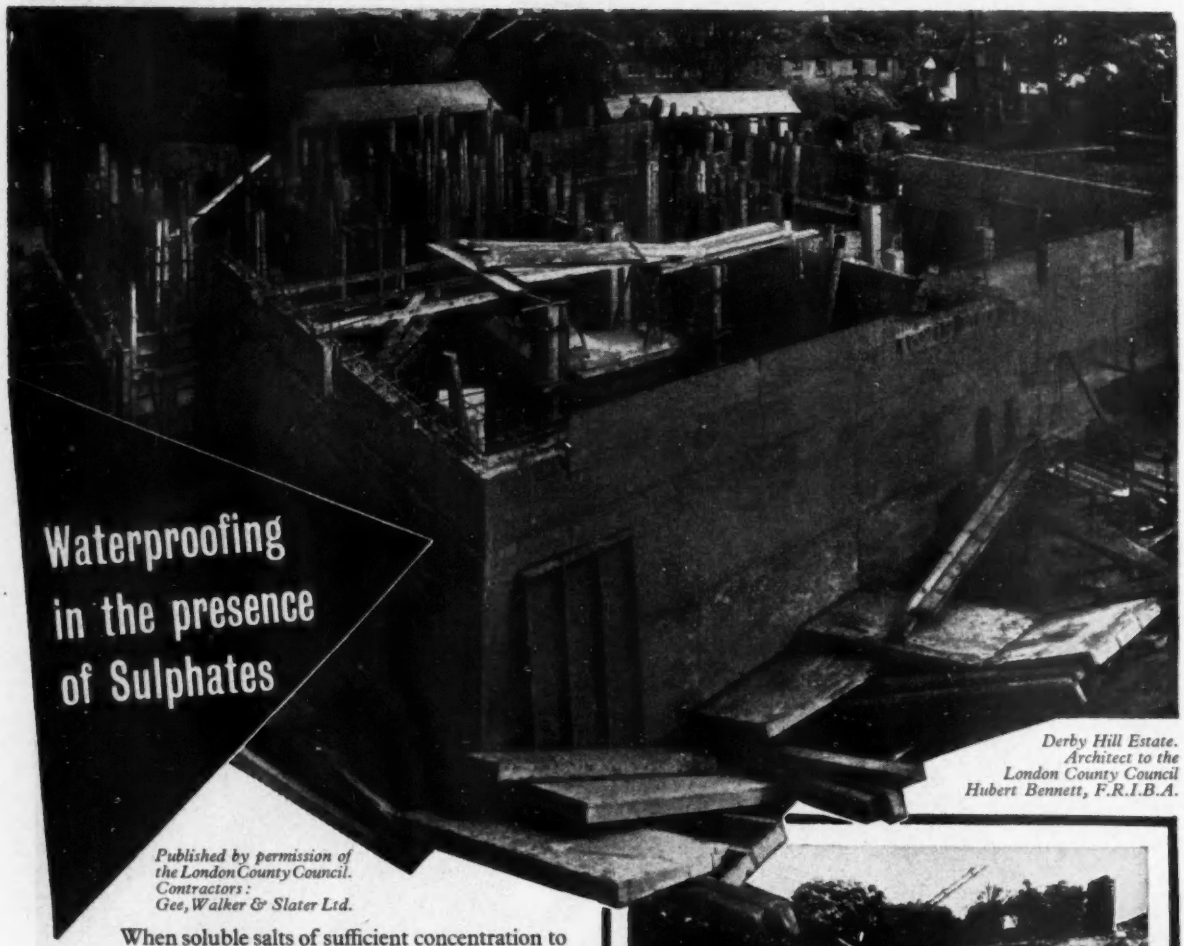


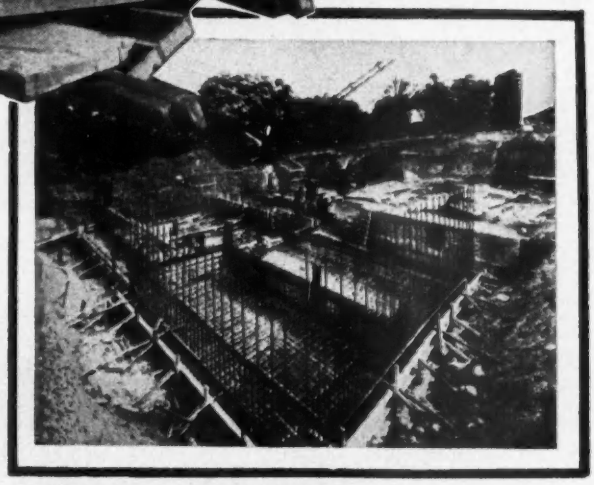
Waterproofing in the presence of Sulphates

Derby Hill Estate. Architect to the London County Council Hubert Bennett, F.R.I.B.A.

Published by permission of the London County Council. Contractors: Gee, Walker & Slater Ltd.

When soluble salts of sufficient concentration to cause disintegration of ordinary concrete are present in a damp site, there is the dual problem of preventing sulphate attack and of protecting the concrete in contact with the ground from penetration of dampness. These conditions have been met and overcome on numerous sites by the use of 'PUDLO' Brand Waterproofer in combination with sulphate resisting Portland cement.

A typical instance is in the construction of blocks of flats for the London County Council at Derby Hill, Sydenham, London, S.E., where the reinforced concrete forming the cellular raft foundation and basement walls is composed: 1 part sulphate resisting Portland cement, 2 parts coarse washed sand, 4 parts non-porous aggregate ¾" down, with the inclusion of 3 lbs. 'PUDLO' Brand Waterproofer per 100 lbs. of cement. Illustrations are of work in progress to 2 blocks.



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News Summary

904 *Sir Charles Barry, architect and Gothic revivalist, the centenary of whose death occurs this week, is the subject of an appreciation by Frances Collingwood.*

905 *An extensive report is given of the annual general meeting of the Royal Institute of British Architects, which was held on Tuesday last week.*

916 *Hampshire CC has made proposals to the London CC for expanding existing towns in Hampshire as an alternative to a new town at Hook.*

919 *Details are announced of the Annual Conference of the Royal Institution of Chartered Surveyors, which opens at Bangor on August 30.*

920 *Results are given of the RIBA Examination in Professional Practice and Practical Experience.*

921 *From all sides, Mr. Henry Brooke, the Housing Minister, was urged to consider the construction of more new towns when the House of Commons devoted another day to debating housing.*

923 *A new Italian method of providing support to the sides of the excavation for the 1,000 ft. long tunnel is to be used in the construction of the Piccadilly-Knightsbridge underpass.*

936 *New developments to be seen at the Mechanical Handling Exhibition, which closes at Olympia today (May 13) are reviewed by G. H. Wagstaff.*

'Late News' will be found overleaf, and 'News of the Week' on page 915.

Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. May 13th 1960 No. 6104

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A Lively Meeting

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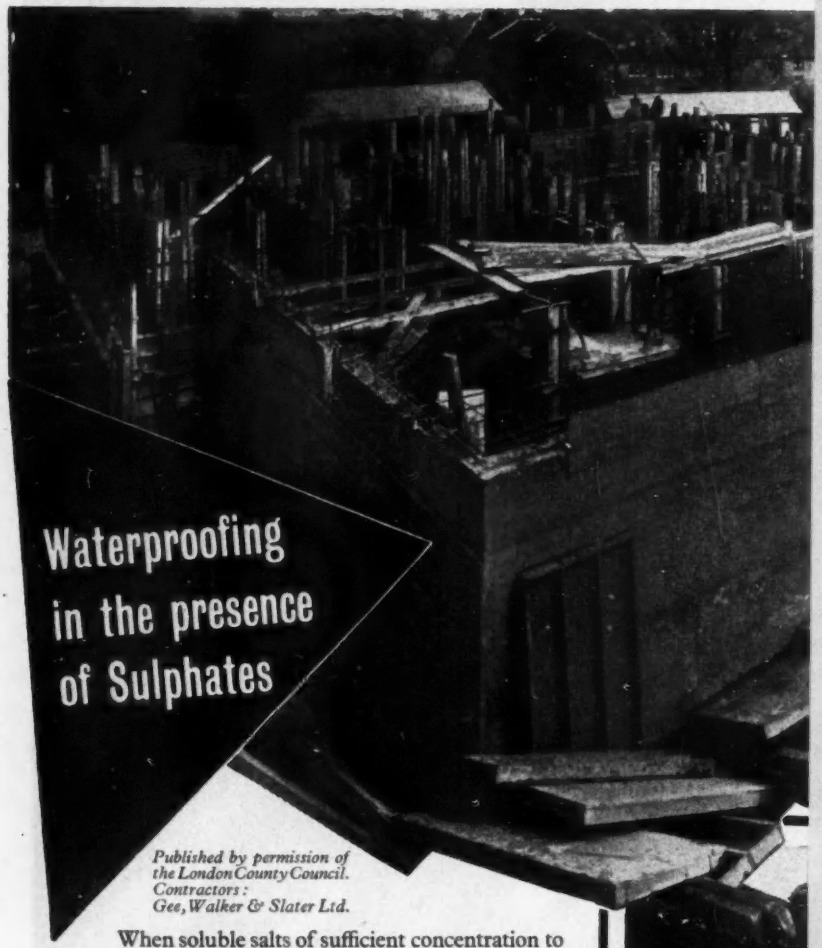

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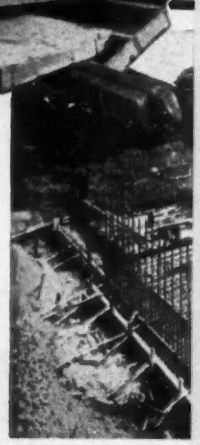

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Late News

Piccadilly Circus Inquiry

MR. HENRY BROOKE, Minister of Housing and Local Government, stated in the House of Commons on Tuesday that he expected to announce his decision arising out of the public inquiry into the proposed redevelopment of the Café Monico site, Piccadilly, before the end of May.

Brick Production

LORD JOHN HOPE, Minister of Works, stated in the House of Commons on Tuesday that production of all bricks in the first quarter of this year amounted to 1,805m., the highest first quarter's figure in any post-war year.

Vacant Posts

NOTTINGHAM CORPORATION invite applications by June 13 for the post of City Architect. Salary £3,340 rising to £3,675.

APPLICATIONS ARE invited for the appointment of County Architect for the Administrative County of Cumberland. Salary £2,550 (1 x £115); (2 x £110)—£2,885 per annum. Details of these posts are advertised in this issue.

Crystal Palace Sports Centre

THE £2m. contract for the construction of the National Youth and Sports Centre at the Crystal Palace site, London, has been awarded by the London County Council to M. J. Gleeson (Contractors) Ltd., of North Cheam, Surrey. The contract covers a main sports hall, stadium, hostel block, swimming pools and tennis courts. Work is expected to start this month. The scheme was designed by the architect to the LCC, Mr. Hubert Bennett, FRIBA.

The Builder

INCORPORATING ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVIII. May 13th 1960 No. 6104

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A Lively Meeting

IMMEDIATE IMPRESSIONS formed by the interested observer of the annual general meeting of the RIBA, held at Portland-place on Tuesday of last week, could well have been of a scrappy, sub-acid discussion of a not very well prepared, uninformative annual report. Those impressions remain in so far as the annual report is concerned but perusal of the discussion at the meeting shows that, despite getting off on the wrong foot due to an obvious breach of the by-laws, there was much good sense talked and a good deal of useful information extracted.

The breach of the by-laws related to the calling of the meeting and the circulation of the report and accounts; in part due to late delivery by the printers, the documents reached many members not more than five days before May 3—a fact that was noted by MR. GEORGE WHITBY and MR. D. H. MCMORRAN, who asked that the report should be remitted to Council for issuing in proper form and in due time, and meanwhile that the meeting should take the form of a discussion. That this resolution was heavily defeated in no way should be taken as a criticism of their action; great play is being made just now of democratic principles at Portland-place and, with respect to the hard-working President, his reply, 'Does it really matter?' was hardly sufficient answer to those members who consider the annual occasion of the presentation of the Council's report one of an importance sufficient to require adequate time for study.

This particular report certainly required time for study, not so much of what was in it as of what was left out. A strong emphasis has been placed in recent years on the appearance of RIBA documents intended for the public eye, and with this members will be in accord; but if this is to be achieved at the cost of compression which results in some of the information being held out, then the Council must think again. Inadequate (in some cases) reporting of the year's work coupled with lateness in getting the documents into the hands of the members could have combined to create a painful impression of lack of candour on the part of the Council, though it is fair to say that this view was not seriously sustained.

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A 12-storey point block on the LCC Alton (West) Estate, Roehampton-lane, which has been awarded the RIBA London Architecture Bronze Medal for the year ending December 31, 1959. The estate was built to the design of the Architect's Department of the LCC (architect to the LCC, Hubert Bennett, FRIBA). The medal will be presented to Mr. Bennett on June 21, a replica being presented to the LCC and a certificate to the contractors, Wates, Ltd.

is a tendency to bring into debate matters which have been decided in the first four months or so of the current year which do not come within the scope of the report and cannot, properly, be discussed. An example of the difficulty is seen in the discussion arising from a proposition by MR. E. B. REDFERN, from which the fact emerged that while invitations to form the new Board of Architectural Education had been issued in March last, the general meeting had it so wished (and some members at least did so wish) could have exercised no influence on its composition because the matter strictly speaking was not before the meeting.

This is clearly an unsatisfactory state of affairs—unsatisfactory, this is, if the ordinary members of the Institute are to feel that they are to have a say, as individuals, in the running of their Institute's business. If the ordinary member is to feel that his views are of interest and that oligarchic government is the better for being on occasion brought to account, then the Council should take immediate steps to hold its annual general meeting closer to the end of the period it reviews in its annual report.

Nevertheless, some useful things came from the discussion under review, not least MR. WALTER BOR'S plea for a more positive approach to planning (and not just the architect's place in planning) by the Council. MR. SPENCE gave an undertaking that this would be attended to promptly. Other information elicited was that the Council has appointed (since the period covered by the report) a full official Registration Council to think *de novo* about the Registration Acts and their shortcomings and what RIBA policy in regard to them should be.

Finally, MR. CLEEVE BARR stated that the report of the Constitutional Committee should be approved by Council next month, after which it will form the basis of new by-laws; these should be submitted to two special general meetings 'by the end of the year or by early next year.' We commend to our readers the full summary of discussion that begins on page 905. This does much to supplement a report which in future years, should be much more informative than the one presented last week.

Notes of the Week

Portuguese Town Planning at the RIBA; Architects Blamed for Poor Houses; 'The Grandeur that was Rome'; Mural Painting Fund

Portuguese Towns Planner at the RIBA

TOWN PLANNERS AND ARCHITECTS have a chance next Tuesday, May 17 at 6 p.m., to hear Portugal's leading personality in the planning field, Sr Luis Lobato, who is speaking on 'Controlling and Planning City Growths.' Portugal's Administration has a strongly professional flavour and professional people like Sr Lobato have been given a unique measure of responsibility for the developments in the country.

He was brought up as a civil engineer but in a country where the architectural profession is not strong he has done much to strengthen their interests. He has held a variety of senior appointments including the Deputy Presidency of Lisbon where he had charge of Town Planning. He has given this up now to join the Gulbenkian Foundation.

Yachtsmen will have a specially soft spot in their hearts for this likeable and effective personality, for he is the proud possessor of the 'Jolie Brise,' a famous craft known to many in the yachting world.

Architects Blamed for Poor Houses

RATHER UNFAIRLY, when it is considered the large numbers of houses that are still being built without their advice, and the financial stringency under which they often have to operate, architects were blamed for most of the shortcomings of the English home at the Royal Society of Health's recent congress at Torquay. Dr. Irene Green, a medical officer of health

Poet's Corner

THE OLD VILLAGES, said Sir Albert Richardson in a recent speech, were not designed by architects—hence their beauty.

Ill fares the land, to aesthetic ills a prey,
When architects (confound them!) have their way.
No longer do they have a sense of beauty:
To foil their plans becomes an urgent duty—
Excepting those, it hardly needs to say,
Of our belovèd old PPRA!

ANON.

Mr. C. G. Mant, CBE, FRIBA, who is to be the new Director General of Works, MOW

in Norfolk, was the architects' severest critic.

'What curious things architects do in houses,' she said. 'They abolish front door handles, they do extraordinary things with the pipes so the water cascades down the stairs, and they crowd us up so we have no room.

'I don't know why they do it. I wonder whether, as they sit at their boards, they really see their design as something in which people do things.' Dr. Green said we needed a users' advisory council to arraign the architects and tell them: 'You are our servants, not our masters, and you must learn to do as you are told.'

Mr. Arthur Ling, FRIBA, city architect, Coventry, pointed out some of the architect's difficulties. 'We are expected,' he said, 'to provide for the seven ages of man in 1,000 square feet and with only £1,500 to spend.' The three things most needed were space, layout/landscaping, and heating. Mr. Donald Gibson, V-PRIBA, asserted that in private housing, building societies should make use of an architect a condition of lending money.

There is no doubt that the RSH Congress reflected the growing demand for higher standards in our homes, and it is to be hoped that the rising standard of living we are promised will be applied to in this direction.

'The Grandeur that was Rome'

UNDER this title BBC Television is to present three documentary films on the last three Fridays in May, when an attempt will be made through the modern and expert eye of Sir Mortimer Wheeler to give unity and meaning to a vast array of imperial fragments. A great many remains in Britain, France, Western Germany, Italy and the Vatican have been specially filmed and cameras were taken by helicopter over the coast of Libya; in addition, existing material from Algeria, Spain, the Lebanon and Jordan has also been used.

The first film, 'The Skeleton of an Empire,' will trace the length and breadth of the Roman Empire; the second 'Gods and Men,' will consider Roman ideas on this world and the next; and in the third, 'Roman Art and Architecture,' Sir Mortimer Wheeler will discuss the specifically Roman contribution to the arts they inherited from Greece.

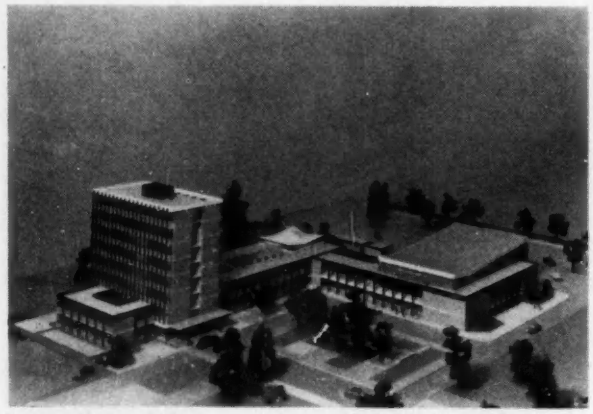
Mural Painting Fund

THE Edwin Austin Abbey Memorial Trust for Mural Painting in Great Britain has funds at its disposal for commissioning mural paintings and, we gather, would be pleased to consider applications from responsible bodies in charge of suitable buildings.

It is within the discretion of the committee of the Fund to select the buildings and sites for such paintings and the artists to be employed. The two chief provisions are that the paintings shall be in a public building or in a building belonging to a charitable institution in Great Britain and that only those artists who have proved themselves draughtsmen, designers and mural painters of a very high order shall be entrusted with commissions. Naturally their sketch designs must be approved by the Committee and by the authorities of the building. Applications, with details of the buildings concerned and plans, elevations and photographs of particular sites for mural painting, should be sent to the Secretary of the Fund, Mr. Sidney C. Hutchison at the Royal Academy of Arts, Piccadilly, London, W1.

The restored Chapel of the Order of the British Empire, in St. Paul's Cathedral, which is to be opened at a service on May 20 which will be attended by HM The Queen and other members of the Royal Family. Lord Mottistone, Surveyor of the Fabric of St. Paul's, is the architect, and Mr. Brian Thomas, the artist, has designed the metalwork, the glazed panels and stained glass windows. The glazed panels on the gates (left) depict the late King George V and Queen Mary, who founded the Order in 1917, and (right) Queen Elizabeth II and the Duke of Edinburgh

RA Exhibition, 1960. Drawn by Basil Spence.
BASILDON TOWN CENTRE. ANTHONY DAVIES, CHIEF ARCHITECT; BASIL SPENCE, ARA, CONSULTANT



RA Exhibition, 1960. Model by McCutchon Studio.
PROPOSED CIVIC CENTRE, HAYES, MIDDLESEX
CLIFFORD E. CULPIN, ARCHITECT

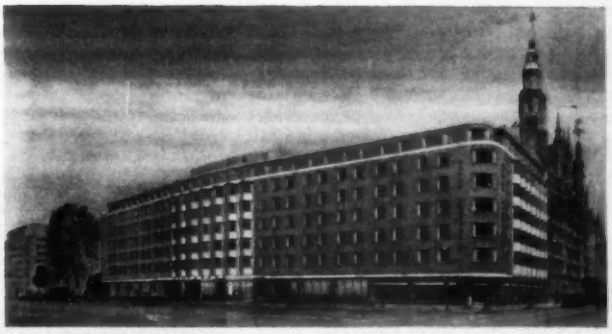
RA Exhibition, 1960 Model by W. Starzewski.
NEW OFFICE PREMISES, VICTORIA, SWI
GORDON TAIT, ARCHITECT

RA Exhibition, 1960. Drawn by J. D. M. Harvey.
CONVALESCENT HOME AND FLATS, BOURNEMOUTH
ARTHUR BAILEY, OBE, ARCHITECT

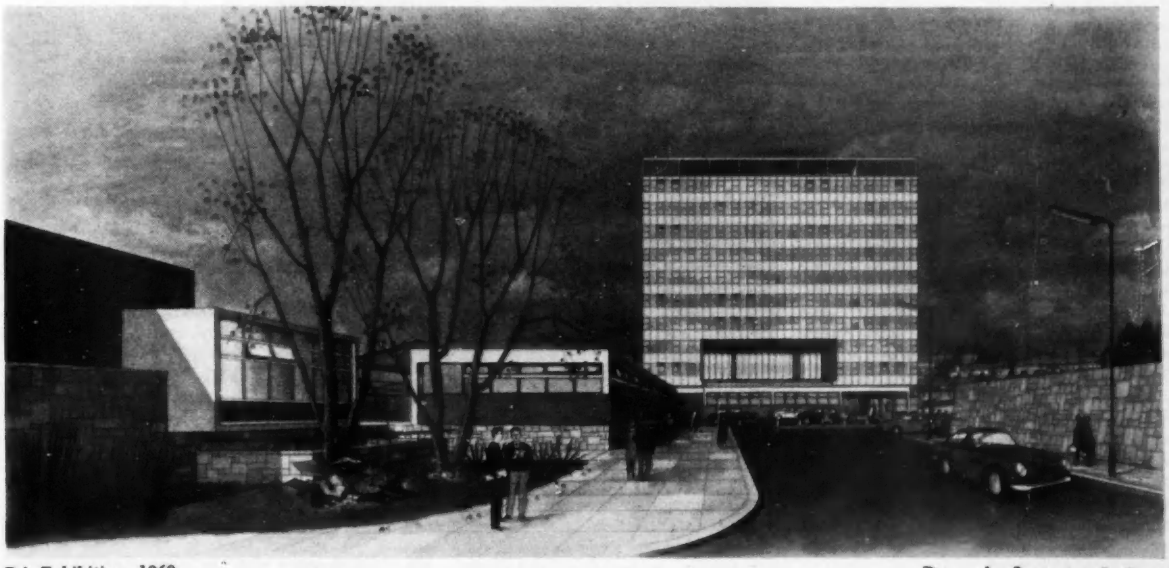
RA Exhibition, 1960. Drawn by T. L. Fraser.
PROPOSED 22-STOREY FLATS, LIVERPOOL
RONALD BRADBURY, ARCHITECT

RA Exhibition, 1960. Drawn by Frank Weemys.
PROPOSED DEVELOPMENT, KINGSTON-UPON-THAMES. ERIC V. COLLINS, ARCHITECT

Royal Academy Exhibition, 1960



RA Exhibition, 1960. Drawn by Anthonv Brandreth.
PROPOSED 'HOTEL PRESIDENT,' RUSSELL-SQ., WCI
C. LOVETT GILL & PARTNERS, ARCHITECTS



RA Exhibition, 1960. Drawn by Lawrence Jackman.
PLYMOUTH NEW STATION. HOWARD E. B. CAVANAGH, ARCHITECT

Sir Charles Barry

Architect and Gothic Revivalist

BY FRANCES COLLINGWOOD

The shortage of accommodation for MPs has been the subject of much debate in recent years, and the matter was brought into prominence on March 4 when the Minister of Works was invited to make a definite statement on his department's policy. One member recalled a scheme by Sir Charles Barry, which was ordered to be published by the House of Commons on June 21, 1855, for the provision of additional buildings round New Palace Yard. This would provide, at a total cost of about £5m., an extra 237 rooms in a manner in keeping with the architect's original conception. On March 31 Lord John Hope gave details of a scheme to utilise the roof space of the Palace of Westminster, which, he said, could be converted to provide accommodation for 300 desks over an area of some 19,000 sq. ft. The total cost would be in the region of £250,000. Thus on the centenary of his death Sir Charles Barry's masterpiece is once again in the news.

SIR CHARLES BARRY, who died one hundred years ago, on May 12, was a much-abused architect. Indeed, it is said that the poisoned tongues of his enemies pursued him beyond the grave. And this is certainly true in the case of E. Welby Pugin who published a pamphlet seven years after Sir Charles's death claiming all the credit for the art architecture of the Houses of Parliament for Pugin senior, the author's father. Fortunately Sir Charles Barry had plenty of friends as well as enemies and the former were able to produce convincing evidence for the sketches they had seen him draw, all of which evidence was assembled in another pamphlet written by Dr. A. Barry, son of Sir Charles.

Most of Sir Charles Barry's life seems to have revolved around Westminster. He was born there, in Bridge-street, on May 23, 1795; he lived there while building the Houses of Parliament; and his entire career is summed up in that astonishing memorial to him on the north bank of the Thames. His father was a well-to-do stationer, and Charles his fourth son.

Early Training

There was never any question as to how Barry was to spend his life for, as soon as he was old enough to hold a pencil, he showed a marked talent for architectural drawing. After being privately educated he was articled to the surveyors, Middleton and Bailey, of Paradise-row, Lambeth. There he remained six years, learning his craft, and finding further outlet for his ideas in painting which he exhibited at the Royal Academy.

When his studies came to an end, Barry had the good fortune to be taken by his father on a leisurely tour of Greece and Turkey. In Athens they met a Mr. Baillie, who was so struck by the quality of Charles Barry's drawings that he offered him £200 and expenses to accompany him to Egypt and Palestine for the purpose of sketching local places and people. Barry accepted this tempting offer, and the experience he gained exerted much influence upon his subsequent development.

Baillie retained the greater proportion of sketches made on this tour but, when he died, they were bought by Charles Barry's son, John Wolfe Barry. A few of the Palestine drawings were used by Finden to illustrate his Bible, and Barry's notes on Baalbec were eventually published by the artist in 'The Architectural Publishing Society's Dictionary.'

From Egypt Barry travelled through Cyprus, Rhodes, Halicarnassus and Malta to Sicily. This, too, was a rewarding experience, for there he met John Lewis Wolfe. The two men were instantly drawn to one another, and a life-long friendship began. They had so many thoughts in common that each proved an extension of the other's ideas and, throughout their careers, they were constantly exchanging opinions. Together they journeyed through Italy, returning to London in 1820, where Barry's excellent sketches were hailed with delight by the architectural world.

Sir Charles Barry, 1795-1860, from a portrait by John Prescott Knight (National Portrait Gallery)

First Successes

He now took up residence in Ely-place, Holborn, and began to compete for some of the small Gothic churches then being considered. Success in this field made it possible for him to marry in 1822, and a string of professional triumphs followed. The first was St. Peter's Church, Brighton, the prize design for which was submitted by Barry in 1823 and, the following year, he was commissioned to build the Royal Institute of Fine Arts in Manchester.

The Barrys moved to Foley Place in 1827 and, two years later, came the Travellers' Club, Pall Mall, which took Barry two years to build, and in which he gave the public a generous taste of the simplicities and proportions of Italian Architecture. Barry's next work of importance was in 1836 when he started to build the Manchester Athenæum, which was to increase his reputation for elegance in proportions. And from that he went on, the next year, to execute his finest work, the Reform Club, Pall Mall.

This building displays the architect's genius at its peak, and has been described as the most perfectly proportioned building since the Italian Renaissance. The central covered courtyard, lit by glazed scale-work converts the whole of this area into a splendid saloon in which the full beauty of surrounding arcades may be admired. He carried out the same idea, in 1847, at Bridgewater House which he built for the Earl of Ellesmere, and there the covered gallery is used for sculpture.

An earlier design of Barry's was the King VI Grammar School at Birmingham, begun in 1833 and which took three years to complete. This was carried out in the perpendicular style, with the front broken by slight projections of the ends, emphasised by oriel windows. It was while Barry was engaged upon this that he met Pugin and John Thomas, both of whom were to work under him on the Houses of Parliament in Westminster.

The Palace of Westminster

A project such as this is so rare an occurrence that the right-man-for-the-job maxim becomes almost a miracle as was the case of Charles Barry and the Houses

of Parliament. The previous building had been destroyed by fire in October, 1834 and, the following June, a competition was announced for a new design, in which it was laid down 'the style to be Gothic or Elizabethan.' Closing date was November, but it was not until the last day of February, 1836, that the result was declared. Once it was known that Barry had entered there could have been little surprise when it was announced that it was he who had been awarded first premium.

Like most official projects, this was a slow-moving affair and, although the river wall was started in 1837, the first stone of the building proper was not laid until April 27, 1840. The following year Barry moved to Great George-street, Westminster, to be near his work. This so colossal, so monumental task was to outlive his lifetime for, although it was finally opened by Queen Victoria in 1852, and Barry was awarded a knighthood, yet the new Houses of Parliament he had so magnificently conceived were not brought to a conclusion until after his death. It was his son, Edward Middleton Barry, who was responsible for the finishing touches.

Little more than a century has now passed since it was completed, yet the present Parliament building has moulded itself so acceptably into the London landscape that it might have been there for ever. The eye may stray over the symmetry of its external shape with perfect satisfaction, and dwell upon the brilliant design of the clock tower with equal pleasure. Small wonder it has been the subject of more photographs and paintings than any other public building in the world, or that the Emperor Nicholas called it 'a dream of stone.' The grand entrance from Westminster Hall, with its great span of steps, never ceases to impress; while Barry's inspired plan for a cross-formation of corridors beneath a central octagon, was equally fine. This octagon, with its superb vaulting, forms one of the finest Gothic constructions in existence.

Craft Schools

So enormous was the conception of this undertaking that a whole world of subsidiary arts sprang up under its influence. To put into effect all the schemes he had mapped out for the Houses of Parliament, Barry set up schools of modelling, stone and wood carving, cabinet-making, metalworking, glass and decorative painting, and encaustic tile-making, all of which had revolutionary effects upon the arts in ever widening directions. John Thomas was put in charge of stone-carving, while Pugin oversaw the wood-carving, as well as being virtual head of all other departments.

During the twenty odd years Barry was working upon the Houses of Parliament, his ideas became so influenced by Gothic thinking that everything else he carried out was informed by it. He indulged heavily in vertical lines, breaking up skylines with end-attics, towers and pinnacles (Bridgewater House was the one exception), and endeavoured to create effect in his buildings by a mass, in the shape of tower or dome, rising from a central point. The Privy Council Office, Highclere House, and the design for Clumber all exemplify this trend in his taste, and to the otherwise classic Halifax Town Hall, he added a tower and a stone steeple.

Professional Jealousies

In addition to his gifts as architect, Sir Charles was a fine landscape gardener. He was, in fact, a man of wide interests and exceptional energy who, throughout his hard-working career, was obliged to wage perpetual battle against professional jealousies, ill-informed criticism, and official interference. He was awarded the Royal Gold Medal of the RIBA for his services to architecture.

When he felt that plans for the Houses of Parliament had reached a stage when his daily presence was no longer necessary, Barry retired to a house on Clapham Common called The Elms, and there he died on May 12, 1860. He was buried in Westminster Abbey.

Sir Charles Barry Honoured

EVERY YEAR members of the Reform Club, where stands a bust of Sir Charles Barry, architect of the Houses of Parliament, dine together on the occasion of his birthday, May 23. This year, Mr. George Whitby, MBE, FRIBA, informs us, to mark the centenary of his death, members paid a further tribute on May 10, by garlanding the bust with flowers.

The Royal Institute of British Architects

A Lively Discussion at Annual General Meeting

About 200 members attended the annual general meeting of the Royal Institute of British Architects, held at 66 Portland-place, W1, at 6 p.m. on Tuesday, May 3, with the President, Mr. Basil Spence, RA, in the chair. There was full and lively discussion of a number of points and the meeting ended at 8.20 p.m.

THE PRESIDENT: I now have to present the Report of the Council and Committees for the year 1959 and to move that the Report be received.

THE HONORARY SECRETARY (Mr. R. Sheppard): I second the motion.

MR. G. F. WHITBY (F): On a point of order, can I ask whether this annual report was received by members in accordance with the by-laws, and in fact whether this report is a report of the Council as required by by-laws 42 and 58 and 52?

THE PRESIDENT: I have already said this is a report of the Council.

MR. WHITBY: I asked if it was in accordance with the by-laws. It is not in accordance with the by-laws, Mr. President, is it?

THE PRESIDENT: I do not think so; is it? Does it matter?

THE SECRETARY (Mr. G. R. Ricketts): According to by-law 52 'In March each year the Boards and Committees shall each forward to the Council a report of their proceedings during the official year, which report, or a summary thereof, shall be incorporated in the Council's report to the Annual General Meeting.' Ours is in fact called 'The Annual Report of the Royal Institute of British Architects for the year 1959' for consideration at the Annual General Meeting—the wording is different.

THE PRESIDENT: I have already said this is the Report of the Council and Committees.

MR. WHITBY: You have said it is not in accordance with the by-laws and that that does not matter, which is a most deplorable statement from a member ot this learned society.

PROFESSOR R. H. MATTHEW (F): The President did not say that: he put the question, does it matter?

MR. WHITBY: With the greatest respect, Sir, I think it does matter. When we are admitted members of this Institute—you have just admitted some—we sign a declaration to observe the by-laws in every respect, and you are asking us to break that undertaking we gave. I think that is a serious matter.

THE PRESIDENT: I am sorry I should ask you to stretch your conscience to that extent.

THE SECRETARY: We could certainly ensure next year that we use precisely the terms as printed in the by-laws, to meet their objection.

MR. D. H. MCMORRAN (F): May we be assured that in future all the by-laws will be followed, and that this document be sent to us fourteen days before the meeting, and not five days before the meeting, as in this case? I suggest we have not had time to consider this report properly, and I would like to suggest that from now on this meeting considers itself a friendly one.

THE PRESIDENT: I should very much like that.

MR. MCMORRAN: A friendly meeting of members, Sir, and I am sure it would be the wish of all of us here that you should remain in the chair. I would like to propose that this meeting gives this report as much consideration as it possibly can, but I would also like to put the motion before this meeting, that the meeting refer it back to the Council until it can be rewritten as a proper annual general report and sent to members.

MR. WHITBY (F): I will second that.

MR. T. M. WILLIAMS (A): Am I in order in asking if the mover has a right to move this?

THE PRESIDENT: I think he has. The report should be posted fourteen days before the meeting: I do not think it was

posted fourteen days before. We have an abject apology from the printers who had an accident with their printing, and I think that Mr. Whitby is absolutely right. It is up to this general meeting whether we wish to discuss this report or not. Will you please vote by show of hands on the proposal that the meeting should be postponed?

(*Lost by a majority vote: four votes for the proposal.*)

MR. MCMORRAN: I take it the acceptance of this report is now before the meeting? I would like to speak on that: I certainly shall not vote for it, because in spite of what you said I consider it is out of order; but on the other hand I shall not vote against it, because I think the right thing for anyone to do on this is to abstain from voting. I should, however, like to refer to some of the matters very briefly mentioned in it.

At last year's annual general meeting you kindly promised an inquiry into the profits which this Institute makes from examination candidates who are obliged to present themselves here because of the monopoly of examining powers which we enjoy. In this paper before us the income from this source is still absorbed in the ordinary funds, and seems in fact to have been transferred to the Development Fund.

Very closely linked with this matter, Mr. President, is the absence of any report from the RIBA Registration Committee. They might have been expected, I should have thought, to look into the question raised again last year whether under the Registration Act the Registration Council ought to hold its own examination.

Turning to a different matter, I believe one can deduce the cost of the new premises from this paper or from an earlier one, but I should have thought it was time for the Council to tell us what the actual cost was. But the most important matter, in my view, sir, is the question of the reconstitution of the Board of Architectural Education. On this question, we are told in the Report it is in the process of being worked out, but my information is that it is already in effect, and that letters were sent out to public bodies about the middle of March. We are told this reconstitution came out of the Oxford Conference; the Oxford Conference is referred to in what passes as the Council's Report. Mr. President, I was a member of the Oxford Conference, and I can assure you this was not discussed, and it did not appear in any form in the conclusions which were published from that Conference. The Council, I submit, had no mandate from the Conference in this respect.

Composition of Board

As regards the composition of the new Board we are told it is to consist of some 12 to 15 members with full executive functions. We are not told who they are nor from what classes of membership they have been drawn; we are not told how long they are to hold office, nor what is to be a quorum in their meetings. These are not, I submit, trivial or frivolous issues; they affect the integrity of this Institute and the well-being of the profession.

I am not satisfied—and this is the point of my remarks—with the peculiar way in which these important issues have been glossed over in this paper before us. A vital new measure has been introduced, in my view, without a frank submission to the general membership. In all seriousness I say to you, in the face of what you have said about the validity of this meeting, that having regard to our responsibilities under the law I think an even more serious view could be taken of some of the matters to which I have referred. (*Hear, hear.*)

MR. W. HOME (A): I was very pleased to detect a really down-to-earth practical assessment of life as it is, in the Foreword. There is one phrase in particular which stimulates thought, in the fourth paragraph —'Whether, for instance, 6 per cent (if indeed all architects get this) is still a sound economic basis will depend upon the services this fee is nowadays expected to cover.' I should like to know whether, in view of the considerable discussion and research going into this percentage economics, does the Institute still enforce the same disciplinary action in the case of members reported for under-charging the 6 per cent?

THE PRESIDENT: On special disciplinary action, once the Institute is furnished with evidence it takes very strong action, but it is no use talking about this sort of thing happening, or undercutting, if evidence is not forthcoming. You must send full evidence to the Institute, and then I can assure you very strong action is taken. The explanation of 'if indeed all architects get this 6 per cent' under this clause relates to where consultants are used the architect has to reduce his fee, but it would not be below 5 per cent, also it relates to the low fees one gets for some housing.

There was a general point raised; this is the Report for 1959, and quite a lot of the work to which Mr. McMorran refers has been done perhaps later since that date.

MR. MCMORRAN: Page 3 of the Report is headed July, 1959—June, 1960, and the whole of the business done in that year is open to discussion.

THE PRESIDENT: This is a Report for 1959: it says so on the cover, and this is the Council which is in office from July, 1959 to June, 1960.

MR. MCMORRAN: Those by-laws which you and I agreed to observe do refer to the official year, which is the year of office of the Council.

Defining Period Under Review

THE SECRETARY: if I may comment briefly: there are great discrepancies, there always have been. It could be argued that this annual report in recent years has never been in order at all; if you interpret the official year, which is nowhere accurately defined in the by-laws, as running from June to June, our Reports have been run from February/March when they could be prepared, to the same time next year, and it would be difficult to run it from June to June and still present it to an annual general meeting in May!

We have tried to take the first step towards rationalising these dates by getting the annual report on the same basis as the accounts are presented, i.e. the calendar year January to December. The accounts are made out that way and we thought it a help to get the annual work of committees reported on in that way. You certainly still have this discrepancy which we must think about, that the Council is elected as from July and goes to the following June.

MR. McMORRAN (F): Thank you. I follow that explanation, but it has this peculiar effect which must be apparent to everyone here; if the Council takes some very drastic public action, such as it has taken over the Board of Architectural Education, during those months from January to May, are they going to be answerable for them, or their successors?

THE PRESIDENT: They will be, in the next report, surely, because this covers the work of January to December, 1959. The next one will be from January to December, 1960, and I would have thought that would be reported then.

MR. MCMORRAN: That is the obvious solution, but it has the effect that by the time that Report is published this action, which may or may not have been desirable, is fifteen months old, and the effects of it, evil or otherwise, have become accepted and it is too late to question them. I submit, sir, this is a most undesirable thing; it is not countenanced by the by-laws, and it goes to the root of the argument that the way this document is presented is such as to deceive the membership.

THE PRESIDENT: It is a question of printing and getting it out.

MR. MCMORRAN: I know there is a no-man's-land between this meeting and the end of the session when there is a little doubt about people's responsibilities. I do not see how that mechanical difficulty can be overcome, but by extending it for another three to four months you are going too far beyond the spirit and intention of our by-laws.

MR. THURSTON M. WILLIAMS (A): Mr. McMorran has been leading us through the by-laws; No. 52 states each committee shall forward to the Council a report of its proceedings. That includes the Board of Architectural Education, which must submit its report in March. The matter to which Mr. McMorran refers took place after March, and we are within the by-laws, and nothing he can say and nothing we can say can get down through the by-laws.

Action Taken in March

MR. MCMORRAN: The public action taken by the Council as the result of the Board's proceedings took place in March: I have checked that.

MR. WHITBY: The by-law that Mr. Williams referred to says 'In March each year the Boards and Committees shall each forward to the Council a report of their proceedings during the official year. . . .' This has been well and truly violated in every respect, because you have said these reports run from January to December, not March to March.

MR. G. T. WEST (A): Does it say in the by-law it shall cover the period March to March?

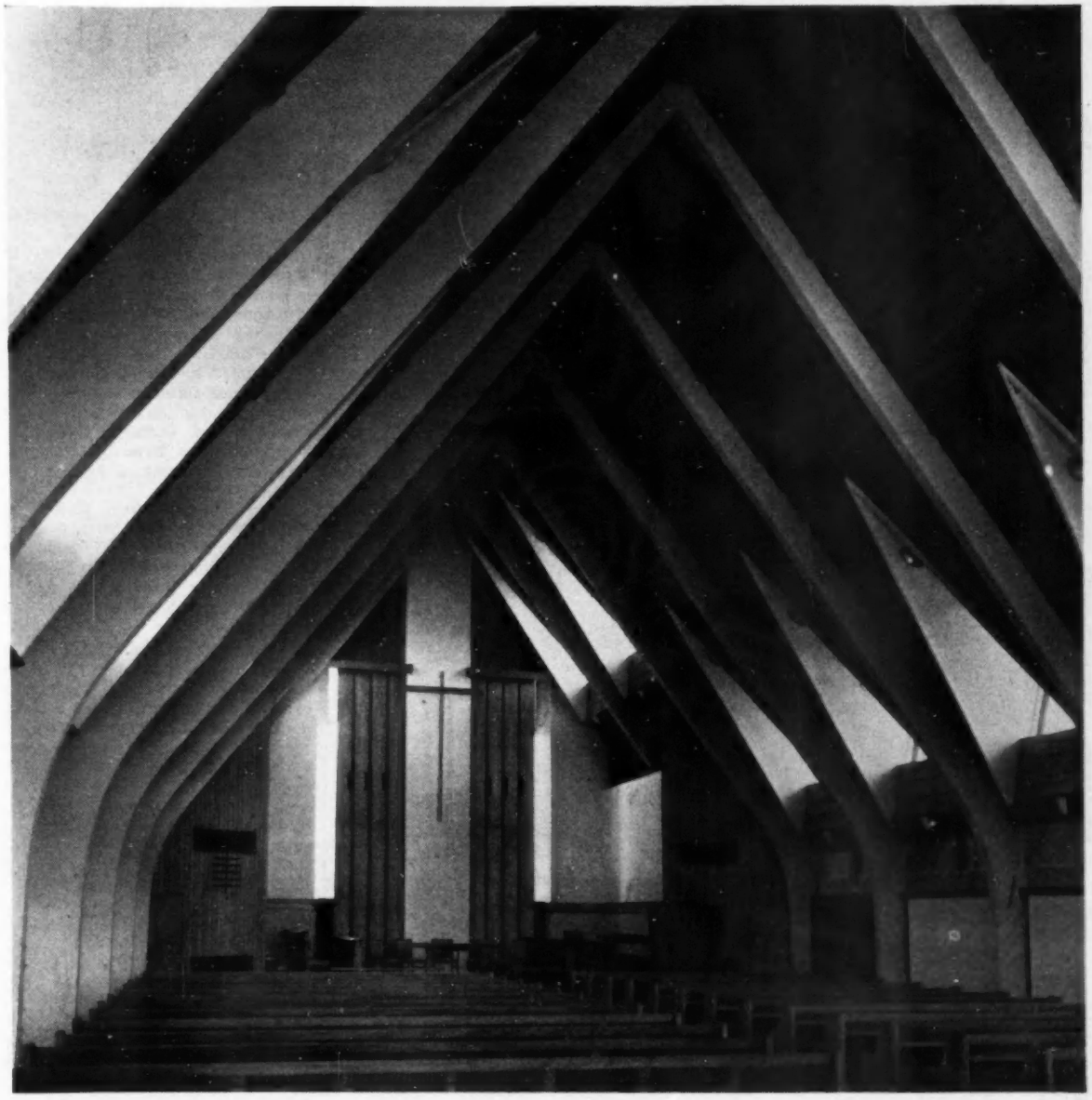
MR. W. G. BOR (A): I should like to comment on the new Committee structure, as far as it relates to the change from the old Town and Country Planning and Housing Committee to the new Design and Planning Committee. Is it our intention to follow the Government's deliberate policy of watering down the importance of town planning by changing a not very effective Town and Country Planning Committee to a possibly even less effective Design and Planning Committee? Post-war town planning has so far been concerned with the redevelopment of blitzed areas and the development of New Towns. The much more difficult and complex task of urban renewal is staring us in the face and we are not ready for it. The town planning profession is desperately short of architect/town planners sufficiently skilled and experienced to tackle these formidable problems. Whose fault is it that town planning lost its appeal and got into a rut? I think we architects must take a good deal of the blame since for the past decade or so we as a profession have turned our backs on to planning. If we now ask for architects to be restored to the forefront of planning, then surely planning must be in the forefront of the RIBA. There may or may not be a case for a separate Design Committee; but may I urge the new Council to set up a separate Planning Committee solely concerned with planning matters and urban design, for which, I submit, there is a very strong case indeed.

MR. C. G. L. SHANKLAND (A): I should like to support what Mr. Walter Bor has said. It is time for us as an Institute to recognise

Continued on page 917.

Congregational Church, Birmingham

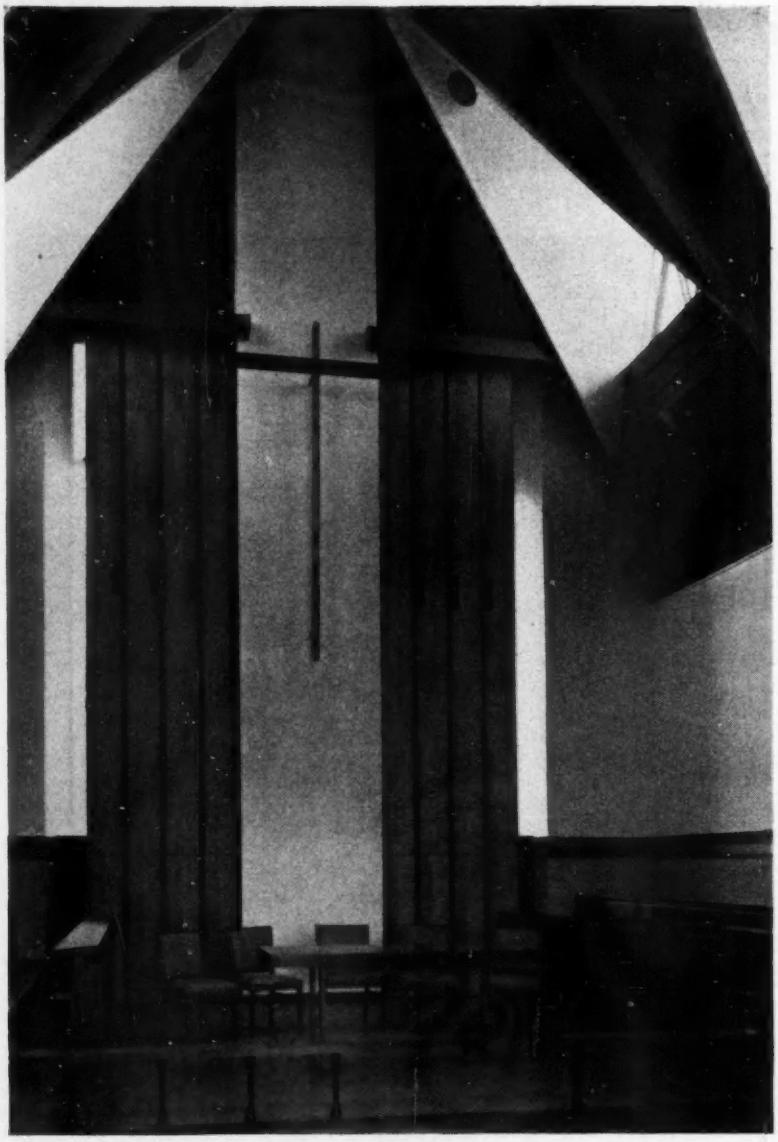
JACKSON & EDMONDS, F/FRIBA, MTPI, architects
C. FLEETWOOD-WALKER, ARIBA, assistant in charge
SEPTIMUS WILLIS & ASSOCIATES, consulting engineers
J. ROBINSON, FRICS, AIARB, quantity surveyor
A. PEARCE & SONS LTD., general contractors



View towards the communion table

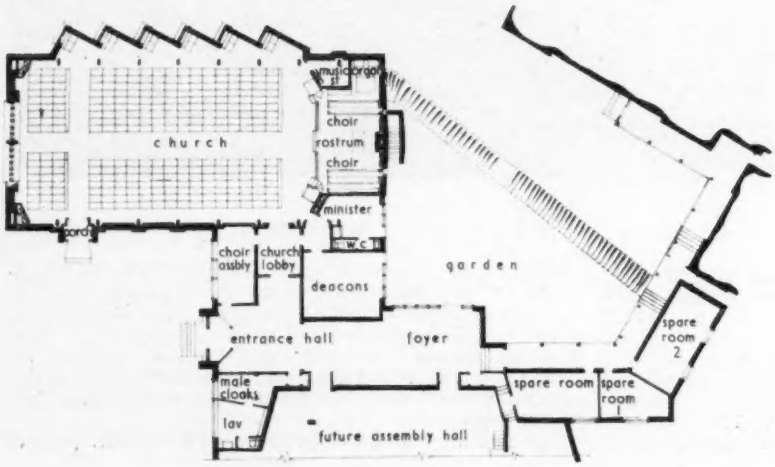
DIGBETH-IN-THE-FIELD CONGREGATIONAL CHURCH HAS BEEN built on part of the playing fields bought by the Birmingham Digbeth Institute as a recreation ground for city children. As the city moved outwards, and housing grew up around the 'Field,' it became necessary to hold services in the pavillion which had been built. Just after the war a small hall was erected and, recently, with a rapidly growing congregation, further expansion became necessary. The basic need was for a large, well-lighted church, with ancillary accommodation for youth work, social activities, classes and meetings. To give the necessary unity to the scheme, and also a sense of community, all the buildings, both old and new, have been grouped around an enclosed garden. As a tower was not desired, visual distinction has been given to the church itself by careful siting, and by designing it with a high pitched tile roof, which dominates the surrounding buildings and houses.

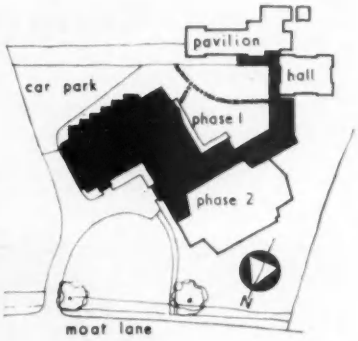
So that the church can be closed off from other parts of



Silver elm wall panels, and arrowhead dormer windows

PLAN SCALE: 1 in. = 40 ft.





the building, a separate entrance through a small porch has been provided near the 'west' end, and this is intended to be used for all formal occasions. The interior of the church has been treated as a simple space clothed in natural woods with visual interest provided by an alternating pattern of cream coloured arches and white arrowhead dormer windows. Applied colour has been used sparingly, and is restricted to a range of lilacs and soft purples, offset by the deep blue-green of the arch-recesses. All other painted surfaces are white. Plastered walls have been slightly textured, to obtain a deeper tone than elsewhere.

The Communion table is emphasised by two tall flanking timber 'curtains' in quartered silver elm, and a very simple Cross made of two plain boards bolted together is fixed to the wall between.

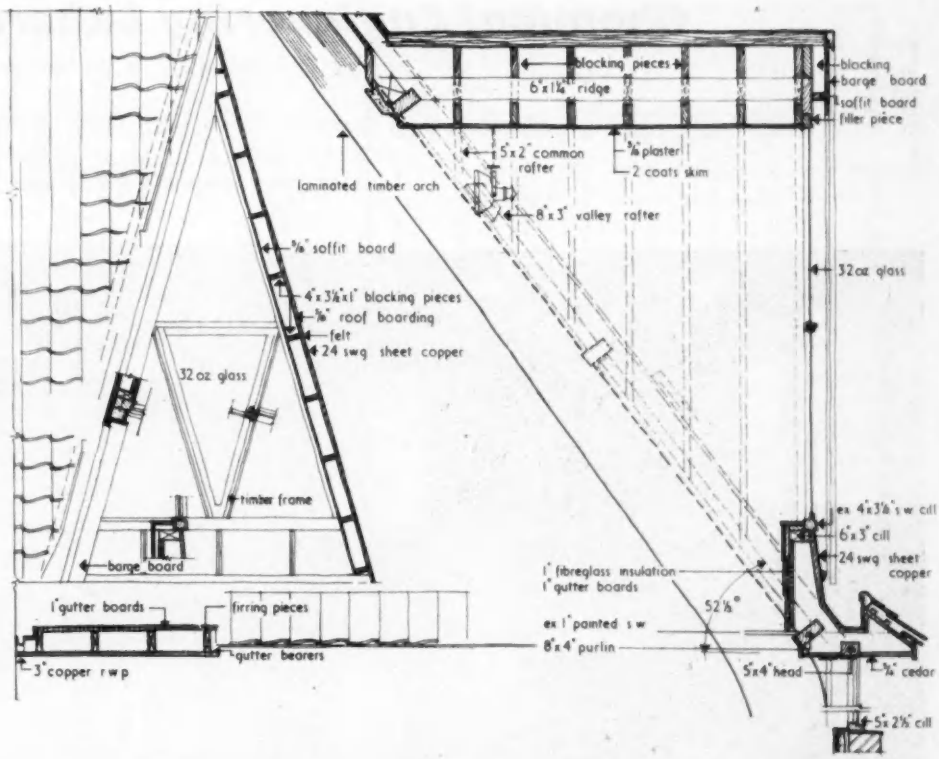
The church roof is of double skin wood construction, roofed with hand-made pantiles and lined with cedar boarding, with copper covered dormer windows. This is supported on eight laminated timber arches with a clear span of 40 ft. and a height of 38 ft. Other roofs are of prefabricated timber decking bitumen felted, with copper covered eaves. The flat roofs are insulated with ½ in. softboard, and the pitched roofs with rock wool lining.

Brickwork generally is in red sandfaced hand-made Warwickshire bricks, interspersed with small panels of Sussex black bricks and relieved by cedar boarding and white painted softwood frames. Steps are in Hornton Stone.

The church is floored with Muhuhu blocks; Minister's and Deacons' vestries with cork; elsewhere with thermoplastic tiles. The foyer linoleum flooring was designed by John Sweet, ATD, RBSA, and decorative tiles in the church lobby were designed by Alan Boyson, ARCA.

Heating is by warmed air from convectors fed by an oil-fired boiler, which permits a minimum of time in warming-up the building prior to use. The remainder of the heating is by radiators or radiant glass panels.

ROOF AND DORMER WINDOW DETAILS SCALE: 1 in. = 4 ft.



Congregational Church Birmingham

Daylighting is planned so that the lighting level in the church nowhere falls below a 2 per cent sky factor. Artificial light is provided by powerful spotlights mounted at the top of the dormers and on one of the arches.

General view of the group, and church interior

Sub-contractors & Suppliers:

Flat roofs, tanking, tarmac roads: Birmingham Asphalte & Paving Co. Ltd.; *reconstructed stone:* Constone Ltd.; *laminated timber arches:* Coventry Timber Bending Co. Ltd.; *electrical work:* Sid Dagnall & Sons Ltd.; *sanitary fittings:* The Griffin Foundry, Fireplace & Sanitary Fittings Ltd.; *metal windows and screens:* John Gibbs Ltd.; *door furniture:* James Gibbons Ltd.; *Hornton stone paving:* Hornton Quarries, Edgehill; *wood block flooring:* Hollis Bros. Ltd.; *Perspex domelights:* Henry Hope & Sons Ltd.; *heating installation:* G. N. Haden & Sons Ltd.; *bricks:* Jackson & Sons Ltd.; *Thermoplastic and linoleum flooring:* Limmer & Trinidad Lake Asphalte Co. Ltd.; *acoustic tiling:* Midland Wallboards Ltd.; *cork flooring:* Mundet Cork Products Ltd.; *Trofdek roofing:* H. Newsum & Co. Ltd.; *hymn number rack:* Henry Hobbs, Packwood Forge; *lining to concealed gutter (church roof):* The Ruberoid Co. Ltd.; *rostrum furniture and panelling and cross:* Spencer & Clarke Ltd.; *Terrazzo flooring and wall tiling:* Venetian Flooring Company; *gates and fencing:* Wyckham Blackwall Ltd.; *roof tiling:* R. J. & T. Wormell Ltd.

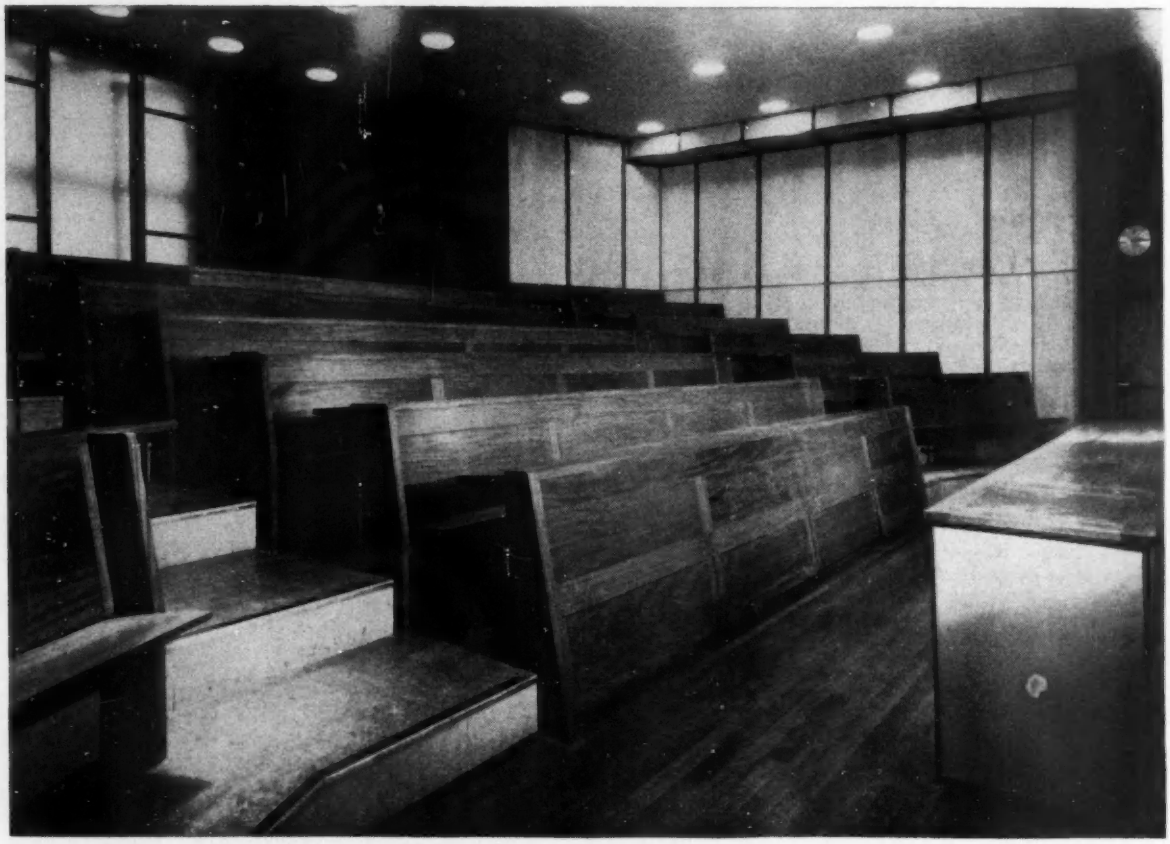
Furniture

Church pews: K. J. Stephens; *communion table:* Spencer & Clarke Ltd.; *rostrum chairs:* Russell Furnishings Ltd.; *vestry chairs:* Frederick Restall Ltd.; *minister's desk:* Hille (London) Ltd.; *curtains:* Kean & Scott Ltd.; *organ:* Price Electrical Products.

Chemical Engineering Laboratories

For The University of Cambridge

EASTON & ROBERTSON, CUSDIN, PRESTON & SMITH, architects
R. T. JAMES & PARTNERS, structural engineers
HAMILTON H. TURNER & SON, quantity surveyors



The lecture theatre, remodelled from an existing laboratory

THE BUILDING OF NEW LABORATORIES for the Department of Chemical Engineering represents another stage in the redevelopment of the Museum site. The wing completes the west side of a courtyard formed by the laboratories of the Department of Zoology. Additional accommodation has been obtained by alterations and additions to existing buildings in Pembroke-street, which were part of the old Chemistry Laboratories.

Accommodation in the new building consists of unit operations laboratories, administrative offices, lecture rooms, library and research laboratories. The conversion consists also of unit operations laboratories, drawing offices, lecture rooms and research accommodation.

The laboratories have been designed to conform with the University's requirements, which are that the building should be capable of alteration and addition within the external walls, have clear spans free of intermediate supports, and also that the arrangement of services should permit alterations to the layout of the department without interrupting the work of the whole department.

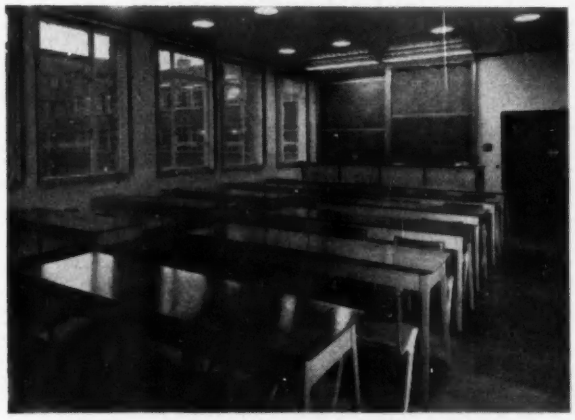
The small-scale laboratories on the upper floors of the building are provided with the normal pipe services, fume-extract ventilation and electrical services. Distribution from central risers is made through the voids above the suspended ceilings and the design allows for services to be provided, now or later, in standard position on any module. The unit operations laboratory at lower ground floor level has water, town gas, compressed air and steam available in fairly large quantities and with the maximum flexibility in supply. The compressed air and steam are piped at varying pressures from plant chambers at lower ground floor level in the old Building where diesel and electric motor-driven air compressors and gas-fired steam boilers are located. Facilities are provided to vary the pressures and quantities of air and steam supplied to each main. Heating is generally by heated acoustic ceilings and the building is divided into zones for the purposes of temperature control. The controls are designed to close down the heating completely at night and to provide an early morning boost to raise the temperature quickly before the hours of occupation. By this method maximum fuel economy is attained.

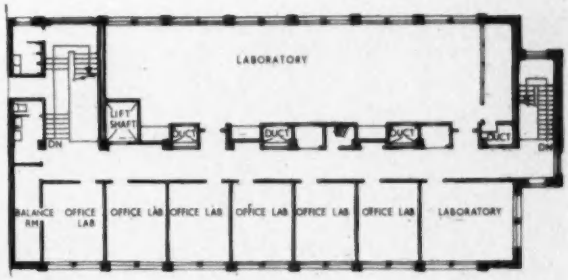
The structure of the building is steel framed with compound lattice girders spanning 47 ft. 6 in. The floor construction is of 2 in. precast blocks with normal finishing screeds and floor finishes. The external cladding of the building is brickwork, and standard metal casement windows. Roof construction is steel frame with woodwool slabs finished in sheet copper.

All the working laboratories have been fitted with services on the rack principle and the under-bench equipment is

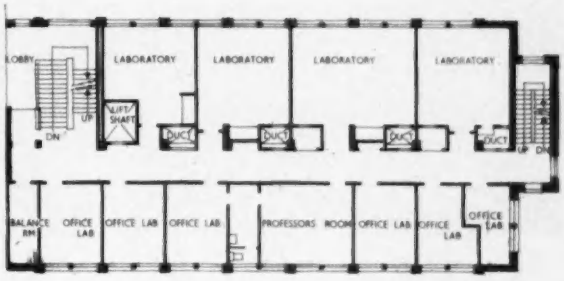
G. N. HADEN & SONS, LTD., mechanical consultants
TROUGHTON & YOUNG, LTD., electrical consultants
WILLIAM SINDALL, LTD., general contractor

Lecture theatre, lecture room, and library

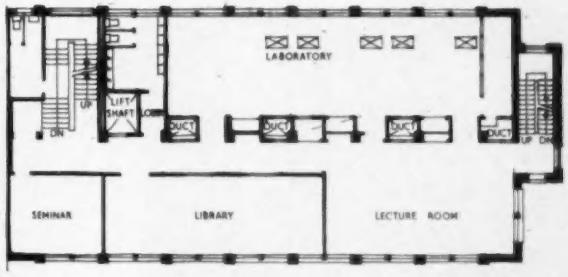




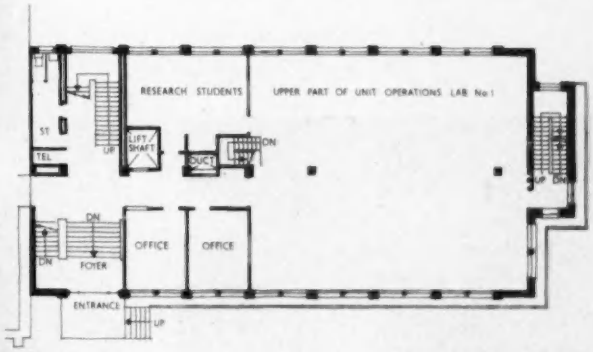
THIRD FLOOR



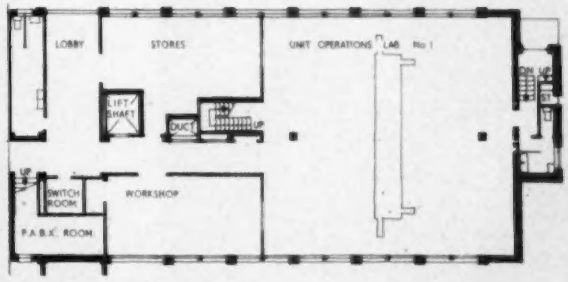
SECOND FLOOR



FIRST FLOOR

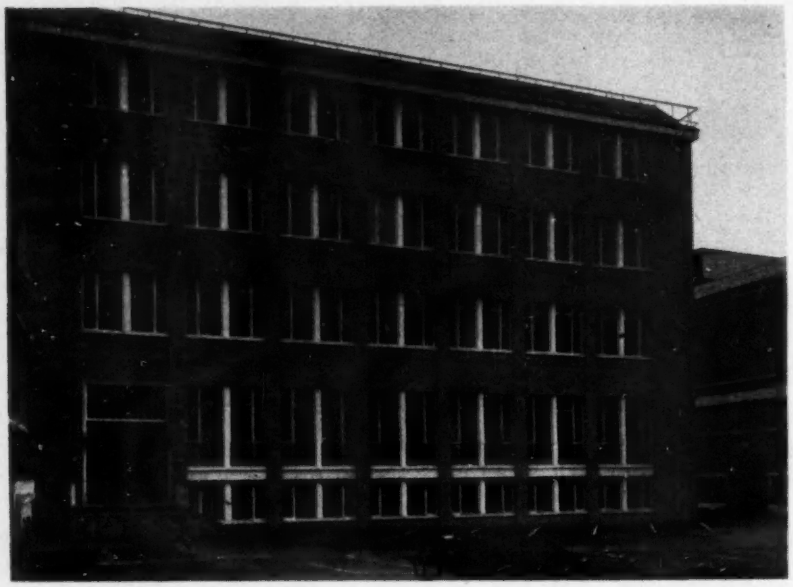


UPPER GROUND FLOOR

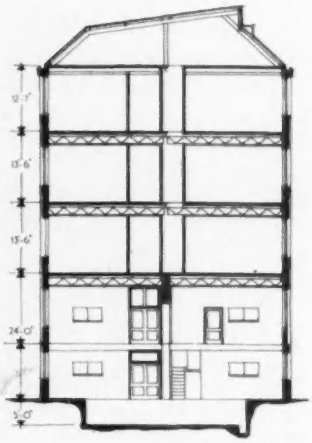


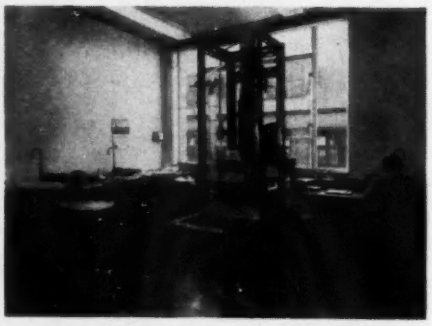
SCALE: 1 in. = 32 ft.

LOWER GROUND FLOOR



East facade and main entrance to the laboratory wing. Below, cross section. Scale: 1 in. = 32 ft.





An office laboratory

designed in units which can be easily removed for servicing, maintenance and replanning of service requirements.

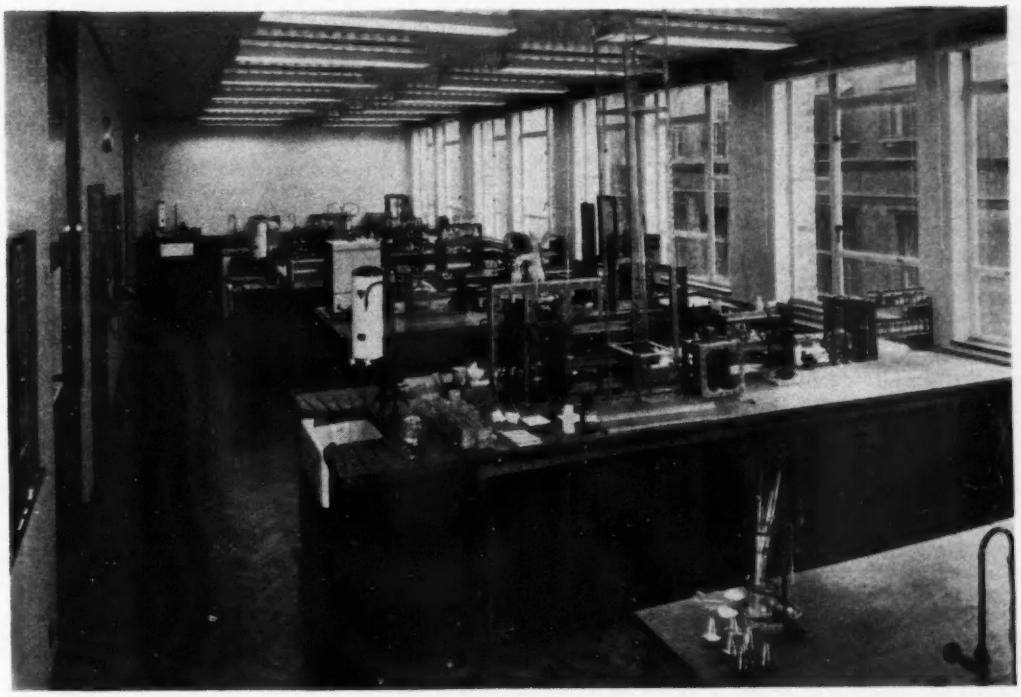
The lecture room on the first floor of the old building has been reconstructed out of an existing chemistry laboratory and its shape and size dictated by the existing structure. In spite of this, 100 seats have been provided in the theatre with a full complement of audio and visual aids. The total area of accommodation made available is 21,580 sq. ft. in the new building, and 19,666 sq. ft. in the conversion. The estimated cost is £258,200 including services and fixed furniture.

Main Sub-contractors:

Structural steelwork: Harland & Wolff Ltd.; *mechanical services:* G. N. Haden & Sons Ltd.; *electrical services:* Troughton & Young Ltd.

Main entrance hall

A teaching laboratory



A teaching laboratory

Chemical Engineering Laboratories For The University of Cambridge

Unit operations laboratory

Letters to the Editor

The Joint College and the RIBA; Joint Training; PC Sums and the RIBA Contract; Code of Selective Tendering

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SIR,—Mr. Enthoven's letter published in 'The Builder' of May 6 acknowledges the difficulty 'of maintaining RIBA recognition to bridge the interim period during which the new course is proving itself.' Furthermore, Mr. Enthoven makes clear that the course will only be recognised if satisfactory results are produced after the first cycle of years has been completed.

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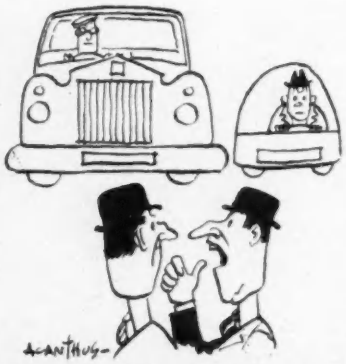

'No, that's Smith—he has to pay his chief assistant three times what he makes himself!'

Permanent Employment of Operatives

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In reply to his direct question about the grading of skills, I do indeed think this, if not an insuperable task, at least so difficult and contentious as to make any kind of agreement on it very remote indeed.

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Code of Selective Tendering

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However, in the seven months since, not one of the numerous invitations to tender from architects and quantity surveyors, with which I have dealt, has been in accordance with the Code.

There seems to be a marked reluctance in professional offices to implement the Code, an attitude which I cannot understand since it would be in the interest of everyone, not least the building owner, whom we all serve.

I would urge all architects, quantity surveyors and building contractors to study the Code carefully and resolve to act on the recommendations at the first opportunity, when the result must surely be more efficient tendering and better relationship between contracting parties.

H. W. TWAITS [AIOB, ABLDG.SI],
5 Bristol-road,
London, E7.

Scottish Contracting

SIR,—The leading article in your issue of April 29 reminds me that I have watched with interest the growth of a pair of three-bedroomed (five-apartment house, in Scottish parlance) semi-detached houses recently erected in this locality under the separate trades system.

The painters have recently left the site, some 14 months after the foundations were laid!

GEORGIAN,
Scotland.

Civil Engineering Contractors

Federation's Annual Dinner

OVER 800 members and guests attended the annual dinner of the Federation of Civil Engineering Contractors, held at the Dorchester Hotel, W1, on Tuesday, with the retiring President, Mr. R. M. Douglas, OBE, in the chair.

LORD JOHN HOPE, Minister of Works, who proposed the toast of the Federation, said that the indications were that the demand for civil engineering work in 1960 would be higher than in 1959. 'I understand,' he said, 'that the road programme is likely to be some £13m. higher than last year and that more work will be wanted for water and sewerage schemes, atomic energy, railways and coal.

'I should like to be able to tell you that there will be a greatly increased demand for work which can be done by the smaller contractor. But that wish cannot be father to the thought this time. The Government gives local authorities a fairly free hand in deciding what civil engineering work to do and I know that your industry is adjusting itself to the pattern of demand.

'We, in this country, like most of the western countries, are continually learning how economic freedom for the individual concern and individual consumer can be combined with policies to ensure that the economy is not at the mercy of those disruptive forces which seem to arise spontaneously in the complex of modern industrial societies. One of the lessons which I think we have now all learnt is that the economy is more like a fast train than a fast car—it cannot be very rapidly accelerated or slowed down and attempts to do so are wasteful and destructive. I am sure you will welcome the early and relatively mild measures which the Chancellor has taken to slow down the rate of expansion of the economy. You will, I think, agree that this kind of sensitive and gentle hand on the throttle is what is needed.'

Work Overseas

Continuing, the Minister referred to work overseas. 'It may be that you will meet increasing competition in many overseas areas. This is happening to some of our manufacturing industries and our share in the world's export trade has declined. To some extent this is because traditional goods and traditional markets have fallen victim to technical, social and political change.

'This is why the enterprise that you have shown in undertaking work in all parts of the world is so very important. Very large schemes are currently being carried out by British firms in Canada, Sudan, Borneo, Nigeria, Brazil, Turkey and many other countries. I hope you will not relax your efforts to establish yourselves against foreign competition overseas on an increasing scale.'

MR. R. M. DOUGLAS, in his response, speaking of the immediate future, said: 'I think we can now say we have every reason for modest optimism. The upsurge in industrial investment with the record of approvals in the first quarter of this year is a source of great encouragement to us all, not only for the work it brings directly, but with further expansion of industrial demand, a future demand in the form of works for power, water, etc., is eventually created. Let us hope that we may steer clear of economic difficulties and that the present satisfactory trend in construction may continue.

'So far as our industry is concerned,' he continued, 'we have waited patiently for many years for a well-planned long-term programme of road work and I make no apology for reiterating that we are confident of our ability to handle a vastly larger programme.

'The equipment is available; the materials are available; the "know-how" is available, and the labour—which, on a highly mechanised operation of this description is capable of an output value of 2 or 3 times that achieved on normal construction—is also available.'

The toast of the guests was felicitously proposed by MR. J. MAURICE LAING. LORD MCCORQUODALE OF NEWTON, President, British Employers' Confederation, responded.

New Office Holders

At the annual meeting on Tuesday Mr. W. G. Mitchell was elected as the Federation's new President. He succeeds Mr. R. M. Douglas. The new Chairman is Mr. A. J. Hill, who succeeds Mr. J. Maurice Laing. The new Vice-Chairman is Mr. P. W. E. Holloway.

Mr. W. G. Mitchell, who was born in Glasgow in 1897, was appointed a director of his company, Mitchell Brothers, Sons & Co. Ltd., in 1923 and ten years later he became Chairman, an office which he still holds. The firm was one of the 34 founder members of the FCEC, and has played a prominent part in the development of the Federation since its formation in 1919.

The Annual Report

In the annual report of the FCEC, Mr. J. Maurice Laing, the retiring Chairman, draws attention to the surplus of managerial and plant capacity in the civil engineering industry. He says the time must come when the emphasis on the construction programme will change and that the civil engineering industry, which is concerned with heavy capital engineering projects, must become more occupied. Until then individual companies must remain as strong as possible and this will not be achieved if contractors continue to take on unremunerative work. It is surely better for contractors to do less work and avoid losses rather than weaken themselves by accepting contracts at less than cost.

The annual report, which contains a detailed analysis of the causes of shortage of small civil engineering contracts reveals that a major factor is the high interest rate imposed on borrowing by local authorities who are large 'buyers' of civil engineering works.

The report also points out that when local authority work has become short many of these bodies who have direct labour organisations, have, without competition, been able to maintain the turnover of these organisations, causing all reductions in volume of work to be borne by contractors.

News of the Week

The New President RIBA

PROFESSOR SIR WILLIAM HOLFORD, MA (L'POOL), FRIBA, PPTPI, FILA, is to be the new RIBA President for the Session 1960-61. This was confirmed at the Royal Institute's annual meeting on May 3. He succeeds Mr. Basil Spence, OBE, TD, RA, ARSA, who retires from office on June 30.

Professor Holford was a Vice President of the RIBA from 1951-52 and was first a member of the RIBA Council from 1938-39. He has served on several RIBA Committees.

He has been a member of the Royal Fine Art Commission since 1944 and a member of the Historic Buildings Council since 1953. He has also been a member of the Advisory Committee on Buildings of Historic and Architectural Interest since 1948 (Chairman since 1952), and is a part-time Member (concerned with amenity questions) of the Central Electricity Generating Board since 1958. He is Vice-Chairman of the Centre of Urban Studies and President of the Housing Centre, London; and the Bluecoat Society of Arts, Liverpool.

RIBA News

THE COUNCIL of the Royal Institute of British Architects, meeting on May 3, accepted, with the exception of a few minor clarifications to the wording, 98 per cent of the Final Report of the Constitutional Committee, the President, Mr. Basil Spence, announced at his Press conference held the following day. The report, after due amendment by the Constitutional Committee, will probably come before the Council again for final approval at its next meeting, on June 21. Mr. A. W. Cleeve Barr, ARIBA, the committee's chairman, said he hoped that the new constitution would be introduced in May next year. Other points arising from the Press conference were:

The RIBA Architecture Bronze Medal Award to the Wessex Federal Society of Architects (1957-1959) has been awarded to the Moat Infant and Junior School, Juniper-avenue, Matson, Gloucester, for which the architect was Mr. J. V. Wall, ARIBA, City Architect, Gloucester.

Mr. Ely Kahn is visiting this country at the end of May. The Yerbury Foundation has asked the Royal Institute to sponsor jointly with it a lecture at the RIBA. This would be on 'Tall Buildings in New York.' In view of the time factor, the Technical Information Committee has agreed to this proposal, and Mr. Kahn will be speaking at 66 Portland-place, W1 on June 2 at 6 p.m.

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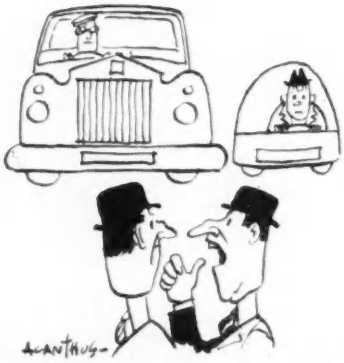

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London, E7.

Scottish Contracting

SIR,—The leading article in your issue of April 29 reminds me that I have watched with interest the growth of a pair of three-bedroomed (five-apartment house, in Scottish parlance) semi-detached houses recently erected in this locality under the separate trades system.

The painters have recently left the site, some 14 months after the foundations were laid!

GEORGIAN,
Scotland.

Civil Engineering Contractors

Federation's Annual Dinner

OVER 800 members and guests attended the annual dinner of the Federation of Civil Engineering Contractors, held at the Dorchester Hotel, W1, on Tuesday, with the retiring President, Mr. R. M. Douglas, OBE, in the chair.

LORD JOHN HOPE, Minister of Works, who proposed the toast of the Federation, said that the indications were that the demand for civil engineering work in 1960 would be higher than in 1959. 'I understand,' he said, 'that the road programme is likely to be some £13m. higher than last year and that more work will be wanted for water and sewerage schemes, atomic energy, railways and coal.

'I should like to be able to tell you that there will be a greatly increased demand for work which can be done by the smaller contractor. But that wish cannot be father to the thought this time. The Government gives local authorities a fairly free hand in deciding what civil engineering work to do and I know that your industry is adjusting itself to the pattern of demand.

'We, in this country, like most of the western countries, are continually learning how economic freedom for the individual concern and individual consumer can be combined with policies to ensure that the economy is not at the mercy of those disruptive forces which seem to arise spontaneously in the complex of modern industrial societies. One of the lessons which I think we have now all learnt is that the economy is more like a fast train than a fast car—it cannot be very rapidly accelerated or slowed down and attempts to do so are wasteful and destructive. I am sure you will welcome the early and relatively mild measures which the Chancellor has taken to slow down the rate of expansion of the economy. You will, I think, agree that this kind of sensitive and gentle hand on the throttle is what is needed.'

Work Overseas

Continuing, the Minister referred to work overseas. 'It may be that you will meet increasing competition in many overseas areas. This is happening to some of our manufacturing industries and our share in the world's export trade has declined. To some extent this is because traditional goods and traditional markets have fallen victim to technical, social and political change.

'This is why the enterprise that you have shown in undertaking work in all parts of the world is so very important. Very large schemes are currently being carried out by British firms in Canada, Sudan, Borneo, Nigeria, Brazil, Turkey and many other countries. I hope you will not relax your efforts to establish yourselves against foreign competition overseas on an increasing scale.'

MR. R. M. DOUGLAS, in his response, speaking of the immediate future, said: 'I think we can now say we have every reason for modest optimism. The upsurge in industrial investment with the record of approvals in the first quarter of this year is a source of great encouragement to us all, not only for the work it brings directly, but with further expansion of industrial demand, a future demand in the form of works for power, water, etc., is eventually created. Let us hope that we may steer clear of economic difficulties and that the present satisfactory trend in construction may continue.

'So far as our industry is concerned,' he continued, 'we have waited patiently for many years for a well-planned long-term programme of road work and I make no apology for reiterating that we are confident of our ability to handle a vastly larger programme.

'The equipment is available; the materials are available; the "know-how" is available, and the labour—which, on a highly mechanised operation of this description is capable of an output value of 2 or 3 times that achieved on normal construction—is also available.'

The toast of the guests was felicitously proposed by MR. J. MAURICE LAING. LORD MCCORQUODALE OF NEWTON, President, British Employers' Confederation, responded.

New Office Holders

At the annual meeting on Tuesday Mr. W. G. Mitchell was elected as the Federation's new President. He succeeds Mr. R. M. Douglas. The new Chairman is Mr. A. J. Hill, who succeeds Mr. J. Maurice Laing. The new Vice-Chairman is Mr. P. W. E. Holloway.

Mr. W. G. Mitchell, who was born in Glasgow in 1897, was appointed a director of his company, Mitchell Brothers, Sons & Co. Ltd., in 1923 and ten years later he became Chairman, an office which he still holds. The firm was one of the 34 founder members of the FCEC, and has played a prominent part in the development of the Federation since its formation in 1919.

The Annual Report

In the annual report of the FCEC, Mr. J. Maurice Laing, the retiring Chairman, draws attention to the surplus of managerial and plant capacity in the civil engineering industry. He says the time must come when the emphasis on the construction programme will change and that the civil engineering industry, which is concerned with heavy capital engineering projects, must become more occupied. Until then individual companies must remain as strong as possible and this will not be achieved if contractors continue to take on unremunerative work. It is surely better for contractors to do less work and avoid losses rather than weaken themselves by accepting contracts at less than cost.

The annual report, which contains a detailed analysis of the causes of shortage of small civil engineering contracts reveals that a major factor is the high interest rate imposed on borrowing by local authorities who are large 'buyers' of civil engineering works.

The report also points out that when local authority work has become short many of these bodies who have direct labour organisations, have, without competition, been able to maintain the turnover of these organisations, causing all reductions in volume of work to be borne by contractors.

News of the Week

The New President RIBA

PROFESSOR SIR WILLIAM HOLFORD, MA (L'POOL), FRIBA, PPTPI, FILA, is to be the new RIBA President for the Session 1960-61. This was confirmed at the Royal Institute's annual meeting on May 3. He succeeds Mr. Basil Spence, OBE, TD, RA, ARSA, who retires from office on June 30.

Professor Holford was a Vice President of the RIBA from 1951-52 and was first a member of the RIBA Council from 1938-39. He has served on several RIBA Committees.

He has been a member of the Royal Fine Art Commission since 1944 and a member of the Historic Buildings Council since 1953. He has also been a member of the Advisory Committee on Buildings of Historic and Architectural Interest since 1948 (Chairman since 1952), and is a part-time Member (concerned with amenity questions) of the Central Electricity Generating Board since 1958. He is Vice-Chairman of the Centre of Urban Studies and President of the Housing Centre, London; and the Bluecoat Society of Arts, Liverpool.

RIBA News

THE COUNCIL of the Royal Institute of British Architects, meeting on May 3, accepted, with the exception of a few minor clarifications to the wording, 98 per cent of the Final Report of the Constitutional Committee, the President, Mr. Basil Spence, announced at his Press conference held the following day. The report, after due amendment by the Constitutional Committee, will probably come before the Council again for final approval at its next meeting, on June 21. Mr. A. W. Cleeve Barr, ARIBA, the committee's chairman, said he hoped that the new constitution would be introduced in May next year. Other points arising from the Press conference were:

The RIBA Architecture Bronze Medal Award to the Wessex Federal Society of Architects (1957-1959) has been awarded to the Moat Infant and Junior School, Juniper-avenue, Matson, Gloucester, for which the architect was Mr. J. V. Wall, ARIBA, City Architect, Gloucester.

Mr. Ely Kahn is visiting this country at the end of May. The Yerbury Foundation has asked the Royal Institute to sponsor jointly with it a lecture at the RIBA. This would be on 'Tall Buildings in New York.' In view of the time factor, the Technical Information Committee has agreed to this proposal, and Mr. Kahn will be speaking at 66 Portland-place, W1 on June 2 at 6 p.m.

RIBA Prizes and Studentships

ON THE INVITATION of the President of the RIBA, Mr. Richard H. Sheppard, FRIBA, has undertaken to give the Criticism of the drawings submitted in competition for the RIBA Prizes and Studentships, 1960-1961. Mr. Sheppard's Criticism will be delivered at a general meeting of the Institute to be held in January, 1961.

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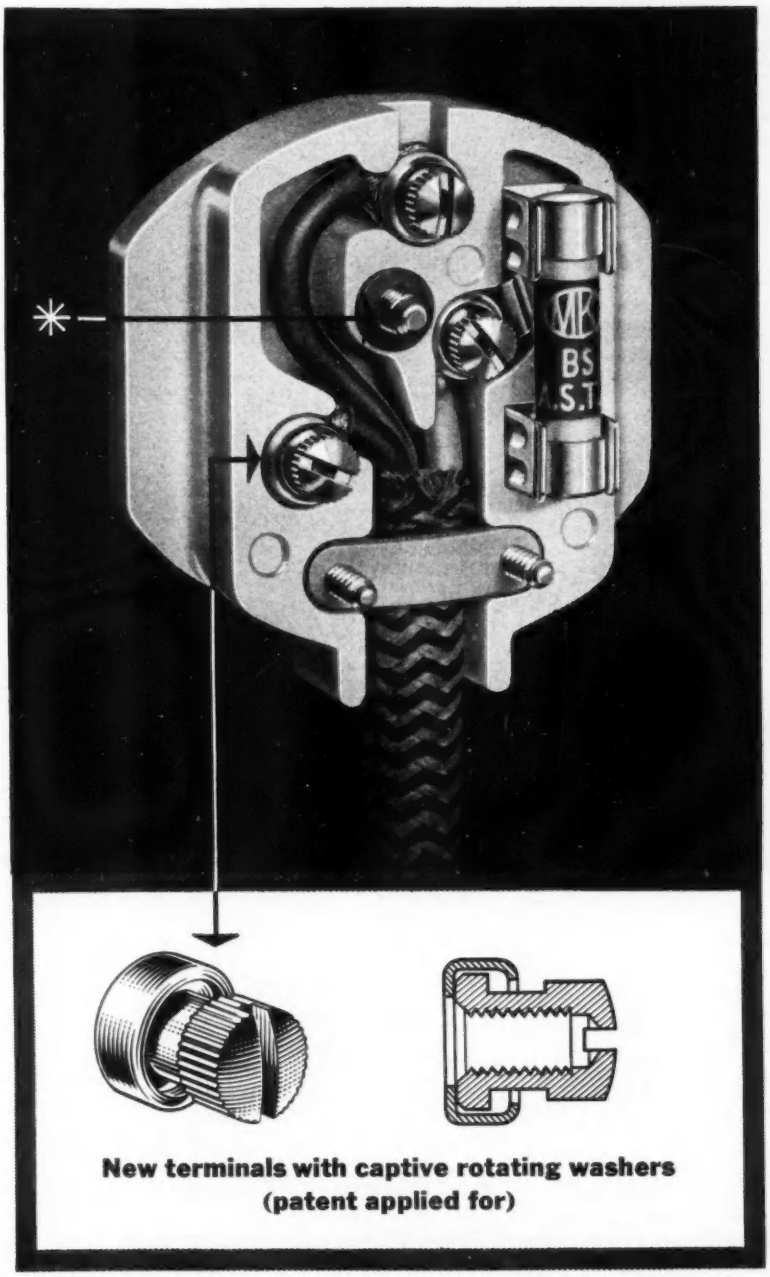

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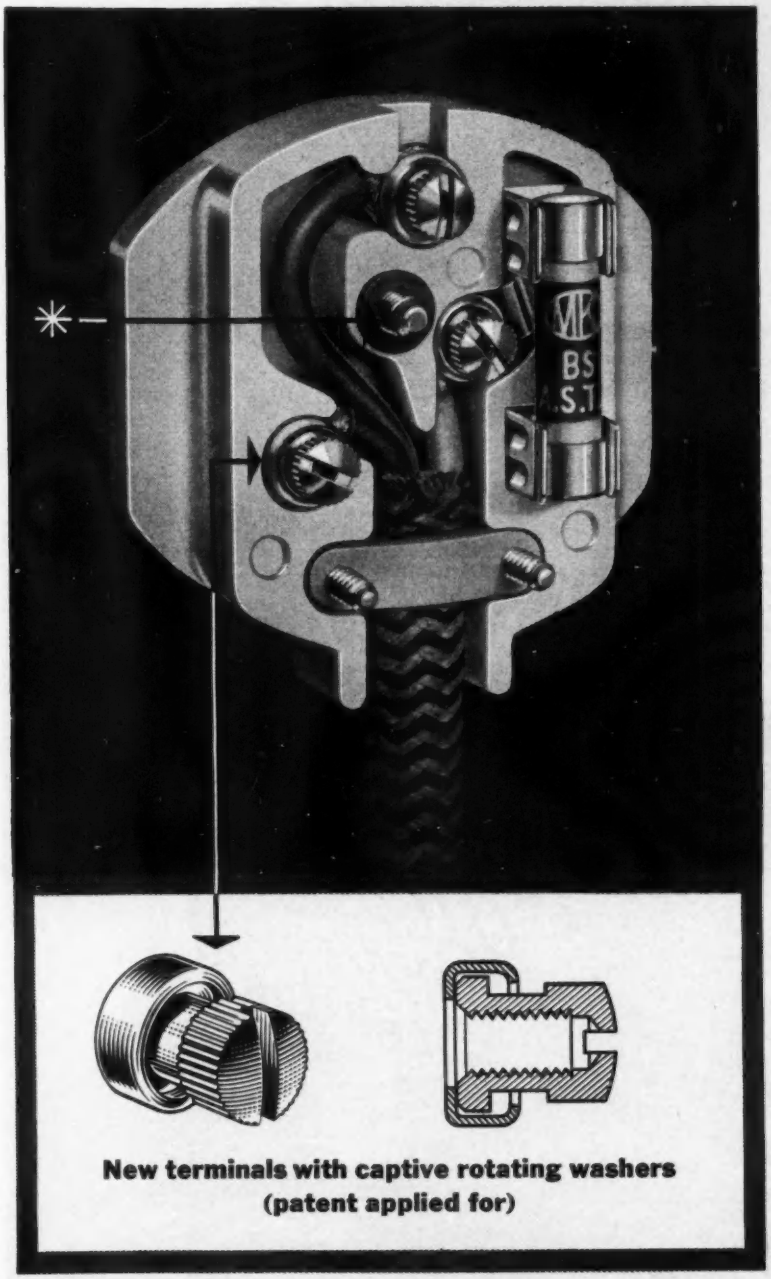

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ADDISCOMBE 1264

BRANCHES:
SMALL WORKS DEPT.:
COPTIC STREET, LONDON, W.C.1
MUSEUM 3705

RIBA Annual Meeting

Continued from page 906.

there has been a change in the public attitude to planning; I think our action should reflect this. How can we deal with it unless we have a committee which considers deeply such things as the lessons of the Piccadilly inquiry? The RIBA was the only body which did not say a single word on that occasion. But we should not only point a finger at other people's mistakes; we should examine the problem deeply and have a committee which comes forward to the Council with policies to grapple with the problems.

THE HON. SECRETARY: This matter has been considered by the Policy Committee, and some statement will eventually be put to the Council for their consideration. In the last year also the Institute and the President have been prodding the Ministers and Ministries concerned over this matter, and it has been in the minds of the Council in the last twelve months.

Need for High Priority

PROFESSOR MATTHEW: This is a matter which I think should be put very high on priority of the next year's Policy Committee. We are in a stage of great fluidity as to our attitude to town planning in this Institute, that will not be easily or quickly resolved. I hope, Mr. President, this will be high priority for the Policy Committee and what will follow from that will be a very clearly defined policy on the part of the RIBA.

THE PRESIDENT: I would like to say after these speakers that we will certainly take this suggestion very seriously, and it will certainly come up for discussion in the Policy Committee.

MR. WHITBY: Is there still a Registration Committee? It does not appear in the list, but its Chairman appears as a member of Council.

THE SECRETARY: The explanation there is that there used to be an unofficial committee which was not more than a kind of caucus of RIBA members of the ARCUK. The reason it does not appear clearly in the Report of 1959 was that it was thought what might be more profitable would be a full official Registration Committee of the RIBA, whose function should be to think very hard again and *de novo* about the Registration Acts and shortcomings, and what the policy *vis-à-vis* those Acts could profitably be for five or ten years. That has been agreed by Council and appointed: this is more recent than December, 1959, and does not appear in the Report.

MR. MCMORRAN: Can I take it that the matter I mentioned earlier, i.e. whether the Registration Council ought under its powers to hold an examination, might be the sort of thing that committee could look into?

MR. EVERARD HAYNES (Secretary to the Board of Architectural Education and Secretary to the Statutory Board): There is no onus on the Architects' Registration Council under the 1931 Act to hold its own examinations except when specifically recommended by the Board to do so. After I spoke at the Annual General Meeting last year, the Registrar, Mr. David Benton, confirmed that as the correct procedure and interpretation.

MR. R. D. BUTTERELL (A): We still have no mechanism in the RIBA whereby we can hold a special general meeting. How soon can we expect an amended by-law whereby we can do this?

MR. A. W. CLEEVE BARR (A) (Chairman, Constitutional Committee): We have today presented what we hope is our final report to the Council; it was referred back on one tiny item, but otherwise I hope it will be finally approved at the June meeting of Council and then published. We have picked up a number of by-law points, some of which were raised at the Annual General Meeting two years ago, and this is one of them. We are making provision for a by-law to make an obligation on the Council to call a Special General Meeting at the requisition of 100 members. If, as I hope the report will be finally approved at the next meeting of Council, the thing should, we think, become operative, and the new by-laws approved subject to the two Special General Meetings that will be required to approve them, by the end of the year or by early next year.

LT.-COL. LESSLIE K. WATSON (F): Mr. Cleeve Barr said he had submitted what he hoped was their final report to the Council today, and he hoped the Council would approve it and then it would be published. I would like to be reassured that it will be submitted to the Allied Societies before it is finally approved.

MR. CLEEVE BARR: I would not like the speaker to be under the impression that we had not done our best to keep the Allied Societies in the picture. Over the last two years we have sent round drafts for their comments; last December and in January we had two full meetings with all the presidents of the British Allied Societies. We have not circulated the final draft, but that has been composed by our committee taking into account all the opinion that we could get, and it really is for the Council, on which the Allied Societies are extremely well represented, to take the final decision and make recommendation to the General Meeting.

Consulting Allied Societies

LT.-COL. WATSON: I do not want to delay you, but I had the impression that it would be referred to the Allied Societies before final approval by the Council. I put it to you to look up what the undertaking was; that was my recollection.

THE PRESIDENT: I do not think that is the case.

THE HON. SECRETARY: I do not think any undertaking like that was given. The Council adopts or rejects the report of the Constitutional Committee, and I do not think any undertaking was given to refer this to the Allied Societies.

MR. CLEEVE BARR: Yesterday there was a meeting of the Allied Societies' Conference, at which they had the final report and fully considered it.

MR. J. GORDON BERRY (F): If the Council approve in June this new machinery, will it become operative from then, or subject to further ratification?

THE PRESIDENT: If passed by the Council, that is part of the government of the Institute, but there are lots of points attendant on the Constitution which will take some time to come through; for example, Privy Council and by-laws are concerned before it can come into effect.

MR. BERRY: The general membership will, however, have an opportunity of studying it? So few of us know what has gone on.

THE PRESIDENT: It will be published as soon as the Council agree on it, and this of course has been done, as I stress again, as an active thing within the whole of the profession, and it does not represent one section at all. Once it is a considered full document it will be published after the Council has agreed to adopt it.

MR. CLEEVE BARR: The report is in plain English, it is intended to be: only in that way will you discuss it. It has been discussed on that basis with the Allied Societies; it will be published after the June Council meeting in that form. Then it will be necessary for the secretariat with lawyers to translate it into by-law form. Then there will be two special general meetings to be held not less than 7 and not more than 28 days one after the other, which could take place at some time in the early part of the winter.

THE PRESIDENT: I feel as President I must say the Competitions Committee has done very good work this year, because I think we have had more competitions open to young architects than ever before since the war. I think they are to be congratulated.

MR. BUTTERELL: I think the idea of two-stage competitions should be pursued. When there are a number of interesting competitions about, you may have to think very hard; they do not come one every six or twelve months. If people had the opportunity and only had to prepare $\frac{1}{16}$in. scale plans and elevations it would widen the field of people coming in. The more competitions that can be assessed and organised in that way, the better results.

THE PRESIDENT: Whenever I meet these deputations—and I meet a great many—I try to sell them the idea of a competition, and go over the different methods. When they can invite competitors to compete I make it clear where the security lies and where the control lies in the RIBA. One has to leave it to them. I do press on many occasions for two-stage competitions. Some, like town halls, rather like a splash, a full-blown competition with everyone submitting plans. It appeals to them that they have this great show of plans, and rather than have no competitions at all one cannot help but accept that, though I always press for the two-stage competition in suitable cases. Some cases are not suitable, where detail is an absolute essential to final judgment, but often the two-stage competition can work very well indeed.

MR. R. G. SMITH (A): In a recent two-stage competition there was some correspondence in a certain section of the technical Press regarding the function of the President during the time of holding of a competition. Can you give us clarification under the by-laws regarding the President acting as an assessor for the competition?

THE PRESIDENT: I do not think there is anything to prevent him acting as assessor. I think it is good he should do so because if you have an assessor from the ranks, you are taking one more competitor away.

President as Arbiter

MR. SMITH: I was thinking particularly of any dispute arising during the competition. The by-laws I believe in respect of competitions state that the President is to be the arbiter in the event of any dispute.

THE PRESIDENT: As I happen to be an assessor in one competition, I should still be the arbiter if there is any dispute.

MR. MCMORRAN: The competitions system has been hammered out by this Institute over a couple of generations. To tinker with the Regulations for Competitions is a very foolish and dangerous thing.

The onus in all competitions is upon the assessor. My impression is that some assessors do not take their responsibilities sufficiently seriously. My own personal experience as an assessor is that if the recommendations of the Institute are faithfully followed and applied meticulously, it results in the fullest exploration of the problem with the minimum expenditure of work on the part of the competitors.

MR. E. B. REDFERN (A): I first started reading the reports of the Oxford Conference in the 'Journal' about nine months ago and came to the conclusion that the Board were out of touch with the opinions of members,

or were inclined to ignore those opinions if they knew of them. I therefore decided to make a pilot survey by sending a questionnaire to over 1,000 members. I have had hundreds of replies and have now analysed enough to know that the Board should reconsider decisions which this annual meeting is being asked to approve. Several local associations are also working on new recommendations.

I can state with authority that there is a serious divergence of opinion as to whether two 'A' levels will improve our future professional status, and that only a very small proportion believe that the external examination should ultimately be abolished in favour of the schools' examination. It can be taken for granted that all members believe that improvements are desirable in the standard of entry and that the standard of qualification should be raised. Those of us who are opposing the Board are as keen as anyone on those objectives, and are doing so because we believe they are concerned less with the status of the architect than with the status of the schools. When looking for a reason for this, it was illuminating to find that the teaching profession has a clear working majority in the composition of the Board (now to be an Advisory Board) and it was obvious from recommendations printed in the April 'Journal' that the new Board was to be similarly biased. I believe it is a bad thing for education committees to be composed mainly of teachers, and have written to the 'Journal' to say so; but I was disturbed to find that the new Board has, in fact, already been appointed, and that it has such a composition that it will never do anything else except 'rubber stamp' the opinions of the advisory body.

In view of these disturbing factors, I suggest that the report should not be accepted as it stands, and I wish to move a resolution:

> 'That the report be accepted subject to the following: That the Council instruct the Board to defer implementation of the Oxford proposals until the views of Local Associations and individuals have been published and considered, and that they appoint the new Board in proportions equivalent to the published composition of the RIBA membership.'

MR. MCMORRAN: I would like to have the honour of seconding his amendment.

MR. EVERARD HAYNES (Secretary of the Board): A large number of points have been made. First, with regard to RIBA examinations, these must obviously be kept in being as long as any candidates exist to take them. There is the impact on the Architects Registration Acts in that the RIBA external examinations qualify for registration. That I feel sure will never be lost sight of by the Council in looking at the future of their own examinations.

The Advisory Council

As to the Board of Architectural Education and the revision: it was not a recommendation of the Oxford Conference that the constitution of the Board should be revised, but it arose as a result of working out the Oxford recommendations in the Report of a Committee on the Oxford Conference. The Board considered the proposals for its own amendment, and approved the proposals, which have been promulgated, for the Board to become the Advisory Council and for a smaller body, the Board, in conformity with by-law 49, to be set up. These appointments have been made, and while in this Annual Report it refers to the necessary constitutional changes being worked out, that is because the report runs to December 31 when we are now in May, and we have taken this action. Letters have already gone out to the bodies appointing representatives to what is now the Advisory Council explaining this change in the composition and explaining about immediate action, reporting and recommending direct to the Council. The appointing bodies have all been told of the constitution of the Board. It is too late now, I submit, to go back on the decision about the two 'A' levels, in that they have already been promulgated to come into effect from September 1, 1961. The question of the so-called second category is still under consideration by the Council, who are being advised by the Special Committee set up to consider and report upon it.

MR. REDFERN: What the Board is proposing is not in conformity with the wishes of the majority of members of this Institute. I would draw attention to the fact that the new Board is proposed by the Council, and approved by the Council. We are now being presented with the old *fait accompli* technique.

Complex Issues

MR. W. A. ALLEN (A): It seems to me there are a curious lot of issues mixed up in this business. I accept that these are Mr. Redfern's opinions of the questions, but the answers he will get to them will not really represent the views of the people to whom he sent them. We have heard in our Council today that the two 'A' levels are in any case generally operated by the schools as matters stand; it will not make a lot of difference to most of the major schools; it will affect training to some extent, but not the major part of it, as things stand. Again, Mr. Redfern attached great importance that professional status is dropping and dropping. I submit it is rising and rising: we have an enormous amount more business. Miss Milne's statistics for the first quarter show an increase of 20 per cent passing through the offices; that is a sample, correctly taken.

MR. G. PHILIP BELL (A): As an extreme provincial I am sure most provincial architects are entirely satisfied with the proposal of the two 'A' level. There may be some dissension about the two-tier Oxford Conference proposals, but they are satisfied with the two 'A' levels.

MR. MCMORRAN: While I was and am a member of that Board it has been a reassurance to me to know that our business, our minutes, and our agenda papers were being circulated over that wide public, because that was bringing our business, which tends to be narrow, before a wide and intelligent public from which useful criticisms might and have come. These new proposals, to which I have already objected, will put a stop to that circulation of our education papers. That is precisely the move against a popular and democratic management of education.

MR. R. O. FOSTER (F): I want to support Mr. Allen; I also had this questionnaire. I thought most of the questions were like those on the form for application for a driving licence; you cannot think whether to say 'yes' or 'no.' I happen to disagree fundamentally with Mr. Redfern. I think the two 'A' levels are an essential to the future status of our profession. We are one of the few professions that does not demand that educational qualification, and the acquisition of two 'A' levels is not in itself going to produce good architects, but at least it will ensure that people will apply their minds to general education before they stop their training, and there is a chance we will get better architects and fewer non-starters

LT.-COL. WATSON: I think practising architects are not entirely satisfied with a student when he comes from a school; he has an enormous amount to learn still, and I am not convinced that the time he spent there—five years—was spent to the best advantage. I suggest the people who are managing this matter should consider the possibility of allowing one of those years of practical work to be taken piecemeal during the five years he is having theoretical training.

MR. EVERARD HAYNES: On September 1, 1962, a new regulation comes into operation: 'The minimum practical experience will be two years, of which at least one year must be subsequent to the final or equivalent examination.' That means the other year can be taken during the course.

MR. SMITH: One of the points raised was the revised constitution of the committee. As an ordinary member, I am confused; on the one hand we have Mr. Allen saying it has been revised, and on the other hand, Mr. McMorran says it has not. In approving the report today, do we approve a revision of the constitution of which we have not been informed?

THE PRESIDENT: This is the Report up to December, 1959. We are talking about things you have been given prior information of, action already taken by Council, which will appear in the 1960 Report.

THE PRESIDENT: I put this resolution to the meeting, moved by Mr. E. B. Redfern (A) and seconded by Mr. D. H. McMorran (F).

Lost by a majority show of hands; 18 votes for the resolution.

MR. F. H. BRADBEER (A): I should like to make a brief comment on what I regard as the two most important documents which the RIBA publish—the Scale of Professional Charges, and the Code of Professional Conduct. I would like to consider it against the background of the recent report on salaries where we were shown to be very badly remunerated. There seems to be evidence that these two documents are not being generally observed as they might be. It is always difficult to prove cases, but there seems to be evidence. I have in mind particularly two ways in which this can happen.

The architect cannot, with the services of surveyors and engineers, charge an all-in fee of 6 per cent. That I hold to be an unprofessional inducement to a client. A firm of architects can become so closely tied to a client who might be a property developer, that the firm share the same office, and he does no real work for anyone else. One suspects it might be difficult to maintain a professional attitude in that set-up. The lax attitude of the profession, all of us, in general to this problem, has contributed to the low salary scale we have in private practice, and this has been reflected elsewhere in the profession.

Fees for State-Aided Housing

MR. WHITBY: Ten years ago an opinion was expressed that the Scale of Fees for State-aided Housing was low because based on a *per capita* basis agreed in 1944. The scale was put up eight years ago when these negotiations started. It was made quite clear from the platform that that rise in the Scale was purely interim while agreement was being reached. I would like to express my own dismay—though I had a share in it—that no agreement has yet been reached. Our representatives who are negotiating should press with all possible vigour for a rapid end to these negotiations and a substantial rise in the fees for State-aided Housing.

MR. TOM MITCHELL (A): The Chairman of my Committee (of which I am only the Vice-Chairman) went to the Ministry and with the support of our committee said in effect that we were at the end of our patience, and gave an ultimatum that unless they could persuade Local Authorities' Associations to change their views we should renounce the whole of the special arrangements and

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revert to the ordinary Scale. (*Hear, hear.*)

MR. J. GORDON BERRY: May I refer to Mr. Bradbeer's point on this question of the all-in service. May I quote two lines from the Report where it refers to the 'long acknowledged but increasingly noticeable dilemma of whether and how far the architect should be allowed, if he wants to, to become an integral part of the building industry; of whether, in fact, current professionalism is too rigid to meet the challenges of the day.' It (the Foreword) goes on 'How far architects should thus be "in business" will be open to doubt.' Obviously any matter like this has to be considered against the general background of policy. May we take it sir, that the two documents quoted by the first speaker are absolutely uncompromisingly upheld at present, even though policy may be changing, if we are to read this portion of the Report aright?

THE PRESIDENT: I can go beyond that assurance: these two documents are absolutely rigid and have to be applied with discipline and with vigour. That is where it is necessary for this Institute to take action when it can get evidence to take action on. Of course, the scale of Fees is being looked at now—it is quite obvious it is too low—by a Committee in the RIBA and they are coming forward with proposals which will be examined at the proper time, as soon as we can. All I want to say is, we are very alive to the very poor remuneration architects get, and it is one of the reasons why we found ourselves at the bottom of the professional ladder financially.

MR. J. GORDON BERRY (F): I think all members here sympathise very much with the Council in its task, but this particular point has been raised that offering the services referred to at a fee of 6 per cent constitutes an unprofessional inducement, and the Practice Committee should take action. Should the firm not reply, does the RIBA just accept the fact that they do not get a reply?

THE PRESIDENT: The RIBA is a very energetic body, and follows it up: it never lets things drop.

MR. BUTTERELL: With regard to *Signboards*, I see at the foot of page 15 a paragraph which says a slightly revised design to accord with the Institute's new house style may be desirable.

MR. W. G. HOWELL (A) (Hon. Secretary, Public Relations Committee): It was suggested we might consider a larger board. At the same time, when going into this we were not allowed to put our name in letters more than 2in. high. The letters are not even that high on the present board. We have suggested to our typographical adviser that we ought to use an extended type. We are looking into that at the moment, but so far we have not had any definite recommendations.

MR. CHARLES SYKES (F): Would it be a terrible thing if it had 4in. letters? One is at present in danger of running into the car in front trying to make out the name of the architect.

MR. MCMORRAN: The boards are mostly on such bad buildings that I am not sure whether it is in the interests of the profession to have them larger.

Policy on Television

MR. W. HOME (A): I feel it is vital for the RIBA to have a more positive policy to sound broadcasting and television. It appears the RIBA distribute information on events which take place in their own building, but I suggest the range should be much more extended, and the Royal Institute should feed information to the Independent Television Authority, the BBC Television and Radio on all matters of architectural interest.

THE PRESIDENT: I think the Council and all the Public Relations and other Committees are very conscious of this. There has been more about architecture and about architects on television and on radio.

MR. HOME: I wanted a specific answer, whether it came about due to the producer becoming aware of us, or whether it stemmed from the Royal Institute?

THE PRESIDENT: It comes from here; we use every conceivable device to press the matter, without contravening the Code.

MR. G. F. WHITBY (F): I have got up at every Annual General Meeting at this time. I would like to congratulate the Hon. Treasurer on the great improvement which has taken place in the whole Balance Sheet. I am only sorry that not only does the Balance Sheet stop at December 31 but the Finances stop at December 31 too. We have done pretty good things since then, and we cannot congratulate him on that account at this meeting; I will have to defer that pleasure to the next year's meeting. The other reason why my speech tonight will be short is that I have not had time to consider it, but I will give him the benefit of the doubt.

The Accounts

MR. G. T. WEST (A): I personally supported the Council's decision recently published to transfer some of this balance to pay off the mortgage as quickly as possible in order that the balances which we are all putting into the funds by our increased subscriptions, should be able, as soon as possible, to be used to such purposes as increasing publicity, and so on.

THE HON. TREASURER (Mr. Hubert Bennett): In view of our present position of paying back repayments in accordance with the loan, the Committee and the Council were of the opinion that it was not only wise to repay the loans which we have had to borrow at 5½ per cent whereas on short term loans we cannot obtain that amount, but the big benefit in the future is that our loan will not continue until 1978, but would be completed in 1972, and the annual repayments on interest which during the next twelve years, i.e. from 1960 to 1972, are reduced to £1,155 a year means that not only are we getting rid of payments, which we can at this stage, but we are effectively reducing our interest charges in the future by some £13,000. Not only do the Finance Committee, but also the Council, support that policy.

MR. MCMORRAN: I should like to add to what has been said about the admirable way the Hon. Treasurer has presented these Accounts. I do not think he is deliberately evading the point of earlier remarks. My point was that our circumstances are not comparable with those of other Societies, with the one exception of the Law Society. We and the Law Society are under statutory obligation to hold these examinations, and no one can call himself an architect and a lawyer without submitting himself to these respective examinations. The other six bodies mentioned are voluntary bodies, and you need not belong to them if you do not want to: you can call yourself an Estate Agent without necessarily submitting yourself to these examinations, and so on. We are in that very privileged position that we can compel everyone to come here and take our examination. That brings out a striking point: the Law Society shows this part of its business as a separate item in its Accounts, and we do not, and I still submit that we ought to do so.

THE HON. TREASURER: There is no reason why we should not show it separately.

THE PRESIDENT: The session having concluded, I will ask you to vote—That the Report of the Council and Committees for the year 1959 be received.

Carried by a majority. (Mr. D. H. McMorran (F) abstained.)

Chartered Surveyors' Conference

Summer Meeting at Bangor University

THE ANNUAL CONFERENCE of the Royal Institution of Chartered Surveyors will this year be held at the University of North Wales, Bangor, from August 30 to September 3. Vice-presidents will hold informal receptions to welcome delegates on Tuesday, August 30 and on the following day the opening address will be given by Sir John Wolfenden, CBE, vice-chancellor of the University of Reading, who will speak on 'Educating the Future Citizen.' This will immediately be followed by an address on 'Education for the Professions' by Mr. A. A. Part, CB, MBE, Under-Secretary for Further Education, Ministry of Education.

The first main session will take place on September 1, preceded by a report on 'Education of the Chartered Surveyor' by Mr. H. W. Wells, CBE, FRICS, chairman of the Educational Policy Committee. Delegates will then join discussion groups to consider the following subjects covered by the principal addresses: (a) The surveyor's education—liberal or technical? (b) The place of research in education for the profession. (c) The relationship of theoretical and practical training for the profession. (d) The place of economics, law and sociology in the education of the surveyor. (e) The stability suitability of the examination syllabus. (f) Training a surveyor for town planning. (g) Keeping a surveyor's knowledge up-to-date. (h) What is common ground between all chartered surveyors? There will be sectional meetings on agriculture, general practice, mining surveying, and quantity surveying.

Brains' Trust Planned

On Friday, September 2, the conference will receive the reports of the discussion groups, and there will be a Brains Trust on Institution affairs. There will also be a choice of other activities including visits of inspection and golf competitions arranged by the Chartered Surveyors' Golfing Society. On September 3 the Agricultural Meeting will be addressed on 'The Agricultural Division: Quo Vadit?' by Mr. R. C. Walmsley, FRICS, and the Mining Surveyors' Meeting will be addressed on 'The Training of Mining Surveyors' by Professor E. J. Potts, MSc, FRICS, and Mr. K. Wardell, FRICS.

The conference dinner will be held in the Pritchard Jones Hall on September 1, and the conference ball will take place in Penrhyn Castle by kind permission of the National Trust on the following evening.

'Dictatorship of Design' Rejected

Sir Keith Joseph on Problems of Building and Planning

SIR KEITH JOSEPH, Parliamentary Secretary to the Ministry of Housing and Local Government, speaking at the annual conference of the Advertising Association at Harrogate on May 5, said that although it must be admitted that ill-considered house and flat designs were sometimes allowed by the local planning authorities, a central design dictatorship would be 'death.'

Sir Keith said: 'One point which we have tried to get across to planning authorities is that planning control should not be used to stifle initiative and experiment. A design is not bad because it is new; a contemporary house is not necessarily out of place among neighbours of traditional design. We must recognise that from new architectural styles, most of which will prove ephemeral, may emerge a new vernacular. We think, therefore, that control over design should be used with the very greatest restraint. Often what is objectionable is not so much the design itself as the choice of it in its context.

'Proposals ought not to be rejected without a clear and definite reason, and where the planning authority have objections to a proposal, they ought to be ready to explain them and discuss them with the developer concerned. But where a design is plainly shoddy, badly proportioned, or, where insufficient attention having been given to its context it is out of place, then it is the duty of the authority to insist on something better.

'We are sometimes asked,' Sir Keith Joseph continued, 'why don't we insist on all buildings being architect-designed. But this would be an intolerable invasion of liberty. It is quite practicable for simple buildings to be thoughtfully and suitably designed by those without architectural qualifications. And I must regretfully say that often buildings that have been designed by architects are not either thoughtful or suitable.

'Nevertheless we do, at least on appeal, tend to think extra long before interfering with a design which has been produced by a qualified architect, since he must be presumed to have given skilled attention to the building itself and to its site.'

Modular Co-ordination in Building

Fifteen Countries Meet in London

BUILDING experts from 15 countries who for the past six years have been studying modular co-ordination—that is, co-ordination of dimensions in building—under the auspices of the European Productivity Agency (EPA). met recently (April 27-29) at British Standards House in London to wind up their work and discuss plans for the future.

The 15 countries taking part in this EPA project published their first report (which contained data and experience from each of the participating countries) in 1956. At the recent meeting in London, delegates examined the second and final report covering phase two of the EPA exercise which involved the construction of experimental buildings to test the theories of modular dimensional co-ordination in actual practice.

This report, shortly to be published, re-affirms that substantial advantages in the building industry and for international trade in building components would be achieved if a general system of dimensional co-ordination in building could be rapidly introduced.

New Study Group

Although the EPC project is now formally completed, the group of experts participating have decided to continue and follow up this important work by constituting themselves as an international study group for dimensional and modular co-ordination in building. Their future programme will be carried out in close collaboration with other international organisations and also with bodies such as the Modular Society in this country whose pioneer work was commended by the delegates.

In addition to their meetings in London, delegates visited the Building Research Station at Garston and the new BSI laboratories at Hemel Hempstead which are built in accordance with modular principles.

The countries represented in the EPA project and in the new study group are: Austria, Belgium, Canada, Denmark, France, Germany, Greece, Iceland, Italy, Netherlands, Norway, Sweden, Turkey, United Kingdom, United States.

Architects and Fire Precautions

Appeal for Collaboration at Design Stage

EASTBOURNE'S fire chief, Mr. Pat Short, is appealing to the town's architects to co-operate with his department in fire precautions while plans are still on the drawing board instead of waiting until buildings are in an advanced planning stage.

There is considerable flat development going on in the town, and MR. SHORT told the Watch Committee that he had noticed that the types of heating being introduced into buildings were usually 'space heating and under-floor heating, normally operated by off-peak electrical supply.' There was also increased use of oil-burning equipment for domestic purposes.

'These methods will no doubt be the accepted ideas for future building construction,' says Mr. Short, 'and there may be a possible increase of fire hazards which must add to the responsibilities of the fire department. I stress the need for close co-operation between architects, building inspectors and my prevention officers to minimise, where possible, the hazard of fire while plans are on the drawing board.'

RIBA

Professional Practice Examination Results

THE examination in Professional Practice and Practical Experience was held in London and Edinburgh on April 21 and 22. Of the 149 candidates examined, 130 passed and 19 were relegated. The successful candidates were as follows:

D. J. Barker, R. M. Barker, H. C. Barton, J. D. Bate, R. W. Baxter, W. E. Beattie, R. M. Berry, F. P. Black, A. E. Bond, E. K. Botting, D. L. Bowden, P. Braithwaite, C. A. Briggs, J. Brooke, J. G. Brooks, A. Broom, F. L. Bulmer.

E. F. J. Champion, D. C. Chow, G. A. Choyce, S. S. Clerici, J. E. Clinton, F. N. Clulow, A. J. W. Collins, W. E. M. Condie, A. F. Coombes, J. G. Counsell, J. R. Cousens, E. H. Cox, D. C. Croghan, R. E. Curtis, A. K. Dale, I. Dane, R. De Giorgio, J. E. De Vulder, A. G. Douglas, Tadeusz Dudzincki.

J. J. Esteves, T. W. Everton, T. C. Eyre, A. J. H. Field, M. R. Finch, Mrs. E. M. Fleming, F. D. Franks, J. H. Fullarton, D. J. R. Garnett, J. H. Goodband, R. C. Graham, J. E. D. Griffiths, G. M. L. Groves, C. S. Hall, J. C. Hall, E. G. Harris, R. T. Hodgson, M. J. Honigsfield, S. G. F. Howell, G. A. Hudson.

D. Ingleby, S. H. Jennings, P. H. Jessamy, G. R. John, I. A. Johnston, P. L. Kaikini, C. Kaye, J. Kennedy, J. S. Key, Saidal Khan, W. M. Ladbrooke, V. H. Lefs, G. Levin, A. E. Lloyd-Davies, C. Lunn, K. G. MacMullen, M. E. Malone, P. O. Mawson, J. B. May, E. L. Messom, H. A. Miller, R. K. Miller, D. G. A. Moody, A. Morrall, R. B. Mowbray, J. H. Muir, Mrs. X. R. Musset.

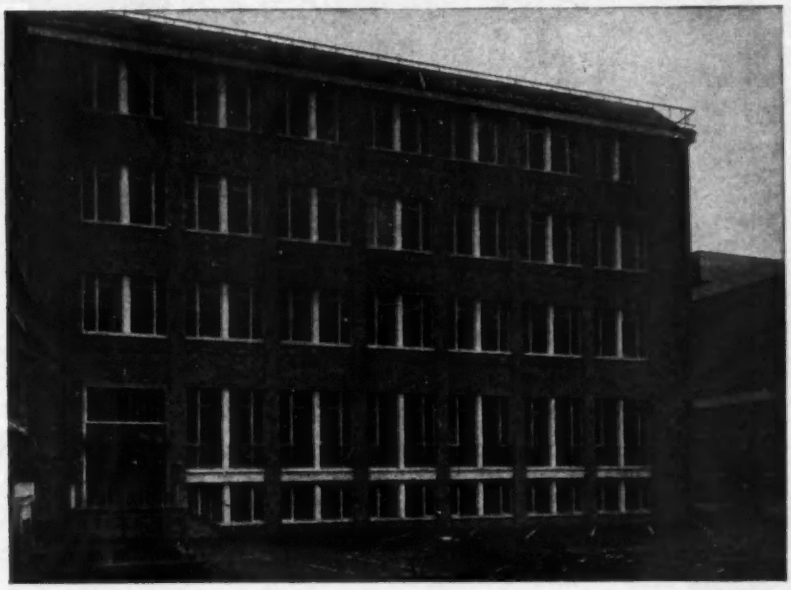
A. G. M. Napier, M. S. Marshall New, A. B. Ninnes, A. J. Patterson, V. I. Patterson, E. C. Percey, T. W. Plaistowe, L. R. Pope, D. K. Porter, E. C. Power, G. Power, C. J. Pratt, R. E. Prestwich, Miss J. M. Price, S. Price, T. W. Prosser, A. Raine, D. E. Rendle, D. H. Richards, P. G. Rush, M. J. Russ.

A. E. Sharman, Mrs. B. Shepherd, J. K. Simpson, D. R. Singleton, C. A. Smith, R. D. D. Smith, W. P. Smith, B. G. Snashall, J. M. Straton-Ferrier, Miss G. M. C. Sweeney, P. A. Tevendale, R. B. Thomas, R. J. Thornett, H. Tyrer, D. A. Udy, L. Walczak, E. W. Wallnutt, J. R. Watts, C. J. Wedderburn-Clarke, D. Whittaker, W. R. Wilson, W. G. Wood, R. E. Woodman, B. Woods, J. F. Woodward.

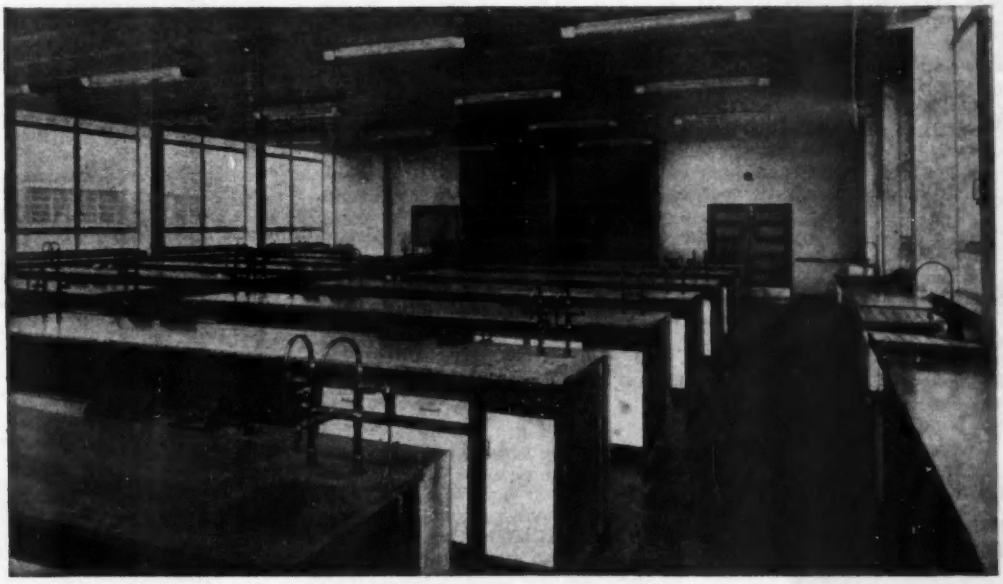
Hanover Exhibition

'A CITY REBUILDS,' an exhibition of the reconstruction of Hanover, is to be held in the entrance hall to the Manchester College of Science and Technology from May 17 to 26 (10 a.m. to 8.30 p.m. daily except Sunday, May 22). Within a short space of 10 years the inner City of Hanover has been replanned and rebuilt under the direction of Professor Rudolf Hillebrecht. Many problems of traffic, re-alignment and control of properties and city amenity have been solved. To coincide with the exhibition a symposium on 'Building Quality and Values in City Centre Redevelopment' is to be held at the College on May 18.

NEW LABORATORIES AT CAMBRIDGE



DEPARTMENT OF CHEMICAL ENGINEERING



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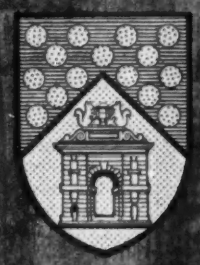
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The Week in Parliament

From Our Own Correspondent

Caravans on Building Sites

WHEN the committee considering the details of the Caravan Site and Control of Development Bill had its first sitting on April 28, MR. HENRY BROOKE, Minister of Housing and Local Government, successfully moved an amendment to the clause setting out certain exemptions from the licensing requirements proposed under the measure. The object of the amendment was to provide on building or engineering sites an exemption for caravans occupied by persons employed in the works.

MR. BROOKE said it had been represented to the Government that caravans were sometimes used for the accommodation of workers employed on major works such as road construction, particularly when the sites were in remote parts of the country where no other accommodation was easily available. It seemed reasonable that in those circumstances there should be, subject to the safeguards contained in the amendment, an exemption from the licensing requirement.

To be exempt, the caravans must be on the site of the works, or on adjoining land, and the exemption would only apply if planning permission—if that was required—had been obtained for the works in question.

The amendment was agreed to without further debate.

Pressure for More New Towns

FROM all sides, Mr Henry Brooke, Minister of Housing and Local Government, was urged to consider the construction of more new towns when on May 2 the House of Commons devoted another day to debating housing. Indeed MR. JAMES ALLASON, who represents Hemel Hempstead, went further and suggested that Britain should have a new capital. If Brazil could do it, why could not Britain, he asked. He pinpointed the problem by commenting that housing sites in the cities had run out and a plan was needed for the future provision of sites to be followed by another which would show the will to provide many more houses than were now being built.

For the Opposition, MR. MICHAEL STEWART put the question: 'What is the Government's policy on new towns?' He observed that although housing was a serious problem in many parts of the kingdom it was becoming increasingly a regional problem. He commented that it was significant that Mr. Brooke, in attempting to justify his denial of the Wythall site to Birmingham, had agreed with the local authority that if they were not to build there some other site must be found. He had recognised as much as anyone that if this aspect of the housing problem was to be solved they had to seek places to build well outside the great conurbations. The housing problem of these conurbations could not be solved without a considerable extension of new towns.

It looked as though the Government were attempting to handle the problem by suggesting that the local authorities concerned should build their own new towns, but he did not believe that to be an adequate solution. Moreover, if local authorities by their own unaided efforts were to try and seek sites away from the crowded centres the pressure on them to invade their own green belts would become so strong as to be almost overwhelming. They were driven to a conclusion which had recently been presented to the Minister by a memorandum prepared by the Town and Country Planning Association.

City Sponsorship

After examining the idea of city sponsorship the Association had commented:

> 'If the Government regards this method (the creation of new towns) as a necessary part of the solution, surely it should assume some responsibility for promoting its fulfilment. In particular there is need of strong central guidance in the selection of sites. . . . The problem of urban sprawl and spontaneous dispersal has become regional in its immediate impact, but no regional planning bodies exist to cope with it. In some parts of the country it raises issues transcending even the immediate region. It seems essential therefore that the Government should take the lead in promoting regional solutions to the problem.'

One of the things it hoped to get from the debate was a more positive lead and declaration from the Government on new towns policy.

Referring to the cost of land for building projects, Mr. Stewart drew attention to the recent remark of Mr. K. W. Brand, staff architect employed by the firm of Wates. He had said: 'Land, except in remote places, is now responsible for one-quarter or more of the total cost of building.' That was a formidable figure. Up to date on the Cromwell Road extension, more had been paid for the land than in the cost of all work so far done on that project.

The case the Opposition urged was that where the value of land increased and that increase was not due to any constructive effort by the owner of the land, that increased value ought to accrue to the community and not to the land owner. If the Minister was concerned to help local authorities in solving their housing problem at reasonable cost the Government sooner or later must select one or other method for getting for the community some part of this increased value which was not the result of any constructive effort by the land owner. The Minister should come to the help of council house building either by lower interest rates or by restoration of the Exchequer subsidy, or by a combination of both.

The Government's Case

MR. HENRY BROOKE said that up to 1951 980,000 houses had been built since the war. Since then the number built was 2,480,000. That was the figure to the end of March and there was little doubt that the number had now passed 2.5m. The present outlook was that we would complete well over 300,000 houses again this year. At the end of March in England and Wales there were 31,000 more houses under construction than a year ago. Private enterprise houses under construction were up by 18,000 and houses being built by local and other public authorities by 13,000. It was the highest March figure since 1956.

Within the 3½ years he had been Minister more than 170,000 unfit houses in England and Wales had been closed. Slum clearance was going ahead unceasingly. He wanted local authorities to go as fast as possible with this and he was considering whether additional steps were needed to help them get round the difficulties of houses in multi-occupation.

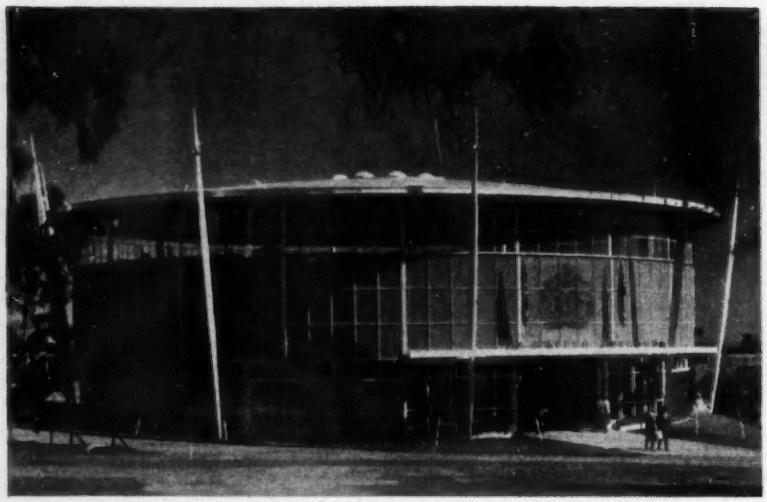
If the Government were to tackle overspill realistically it wanted to take as close a measure of the problem as it could. For London it would be examining it in relation to the LCC's proposal to build a new town at Hook. They must look at that and possible alternatives. There were still many thousands more houses to be built in the eight London new towns.

When MR. ALBERT EVANS asked what steps the Minister was taking to assist the LCC to go ahead with that projected new town MR. BROOKE said he was taking a close interest, but the LCC had not forwarded any definite proposal although it could at any time. He had chosen his words carefully as he recognised that Hook might come to him for decision one day and he did not wish to seem to be prejudging the matter before hearing all the pros and cons. They certainly would need more house building outside London. For Birmingham he was not only meeting shortly representatives of Birmingham City Council, but he had also initiated discussions with neighbouring counties to see where housing and industry could best go and he was sure it should not go to Wythall and break into Birmingham's green belt. He was ready to give similar help to each of the big cities that could not clear their slums and rehouse people within their boundaries.

Showing how home ownership was going ahead, he said that building societies in 1959 advanced for house purchase on mortgage £530m., a record. £50m. was also advanced by local authorities to house purchasers. He knew of 2,000 advances up to 100 per cent that had been made under the new powers.

Before the recent Act, houses in England and Wales were being improved with grant at the rate of 35,000 a year. In 1959 that had leapt to nearly 80,000 and he was on record that he would be disappointed if for 1960 it was not 100,000 or 25,000 a quarter. In the first quarter of 1960 the number of houses approved for grant was 28,000. He wanted grants to be taken up faster and was doing everything he could to encourage landlords and owner-occupiers of older houses to apply for them. 'The modernising of older houses is an essential part of a practical housing policy,' he declared.

One-bedroomed houses and flats mostly



A view of the permanent UK Pavilion, Johannesburg, built last year to provide suitable display facilities for British products at the Rand Easter Show, recently renamed 'The Union Exposition.' The architects were Fleming and Cooke, of Johannesburg, and C. E. Todd, of Erik Todd, Horrell, van Schaik and Austen, of Pretoria, was consultant architect

designed for the elderly were going up and the figure was well over 20,000 a year and it would before long, he hoped, be 30,000. Not enough local authorities were giving up-to-date study of the needs of old people and the Ministry were bringing out a new booklet this summer.

During the debate, MR. ALLASON said that for London they must look beyond the green belt for new housing sites. Clearly the only way to provide sites on a grand scale was further new towns and he asked the Government to look north of the Thames rather than south.

Scottish Housing

Attention was also focused on Scottish housing when MR. JAMES MCINNES referred to Glasgow's problems. Only 900 overspill families had been dealt with and in 1960 the city expected to build not more than 2,500 houses compared with 6,460 in 1954. What was the effect on the building industry? In 1955, 6,207 building trade workers were employed building houses for the Corporation. In 1959 this had dropped to 3,764. There were 14,000 to 16,000 building trade workers unemployed in Scotland. More new towns were required. MR. TOM FRASER said there were no impediments in the way of private enterprise houses in Scotland, but the number completed had hardly increased as there was no profit in building them for private ownership. He considered that 300,000 new houses were needed.

MR. JOHN MACLAY, Secretary of State for Scotland, wondered if the Opposition were asking that the shortage of land for building should be met by allowing building on the green belt, which was not the Government's policy. From the end of the war to 1959 about 381,000 houses had been built in Scotland. There were still serious shortages, but it could not be contended that this massive effort had not made large inroads into the problem.

Overspill agreements had now been concluded between Glasgow and 19 authorities, including three new town development corporations. Negotiations with other authorities were proceeding and he expected agreements to be concluded with at least five. Agreements already approved covered the building of over 10,000 houses of which nearly 3,000 would be built by the Scottish Special Housing Association. On the basis of firm plans now being implemented he expected that houses for the overspill population would become available outside Glasgow at the rate of about 2,000 a year over the next two years and this number would rise steadily as the new town of Cumbernauld got into stride and other receiving areas continued to expand operations. Their objective was to reach and maintain a rate of 5,000 houses a year as the total number of new houses available for Glasgow. The possibility of a further new town at the right time was not ruled out.

Birmingham's Problems

Birmingham's housing problems were again raised in an adjournment debate on May 2 when MR. JULIUS SILVERMAN said the meeting between Birmingham representatives and Mr. Brooke would be on May 18. Many authorities around Birmingham did not want municipal tenants from Birmingham. The green belt was not for Birmingham so much as for the people of the surrounding areas who were resisting the incursions of Birmingham tenants.

MR. BROOKE said he wanted to widen discussions and bring in all the neighbouring county councils. He could not but believe that by conferences of that kind they should not fail to be able to pinpoint areas suitable for Birmingham overspill.

In his study he did not at present see any clear site where a wholly new town could suitably be built. 'I may be wrong,' he said, 'but it seems to me that we are more likely to find a solution by way of expanding a number of existing towns. This first and foremost is a planning question. We must examine the whole region round about and determine on planning grounds where development of this kind would be most likely to be successful.'

Tax Avoidance and Building

WHEN MOVING the second reading of the Finance Bill on May 3, MR. HEATHCOAT AMORY, Chancellor of the Exchequer, referred to a series of clauses which, he said, were designed to frustrate the stratagems by which certain persons sought to avoid their proper liability to tax or to establish unjustified claims on the revenue. Most of the clauses were designed to ensure that trading profits were dealt with as trading profits for tax purposes and did not escape liability by being turned into capital gains.

Mr. Amory said that Clauses 19 to 22 of the Bill dealt with the problem in relation to companies which constructed or dealt in buildings, land, investments and other major assets. In the simplest case here, a company was formed to engage in a trading venture like putting up a building, but the building was never sold. Instead the company was sold to the ultimate owner of the building and so the profit on the construction of the building became, in effect, a capital gain on the sale of the shares.

There were quite a number of variants of this device, and the proposal was that those who sold the company in such a case should be charged on an amount of income corresponding to the profit which would have arisen, judged by the price they received for their shares, had the trading assets and not the shares been sold.

Lord Bossom on the Roads Problem

THE REPEATED cries of 'hear, hear' which greeted the conclusion of the maiden speech in the House of Lords on May 4 of LORD BOSSOM OF MAIDSTONE seemed to signify more than the usual courtesy extended by peers on such occasions. They were acknowledging a thoughtful, constructive speech on all aspects of road safety and road accidents in which Lord Bossom had introduced a distinctly architectural flavour.

Lord Bossom classified four main causes of road accidents: human failures, machine imperfections, the intoxicated driver, and unsatisfactory roads, and it was to that section of his speech on roads that he gave the House the benefit of his expert knowledge. He commented that for a multitude of reasons, unsatisfactory roads were legion, but to widen them might be a slow and very costly business. In London, for example, it had taken them 25 years to widen the Strand, and only part of it at that.

New methods of widening important streets were long overdue, he said. The easy way was just to go ahead, get a lot of money, pull down one side of the street and thereby widen the road. But that

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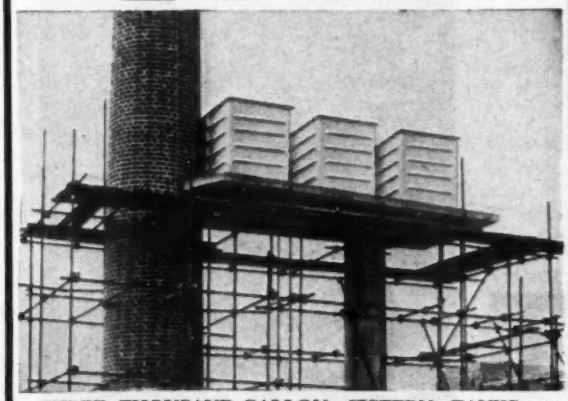

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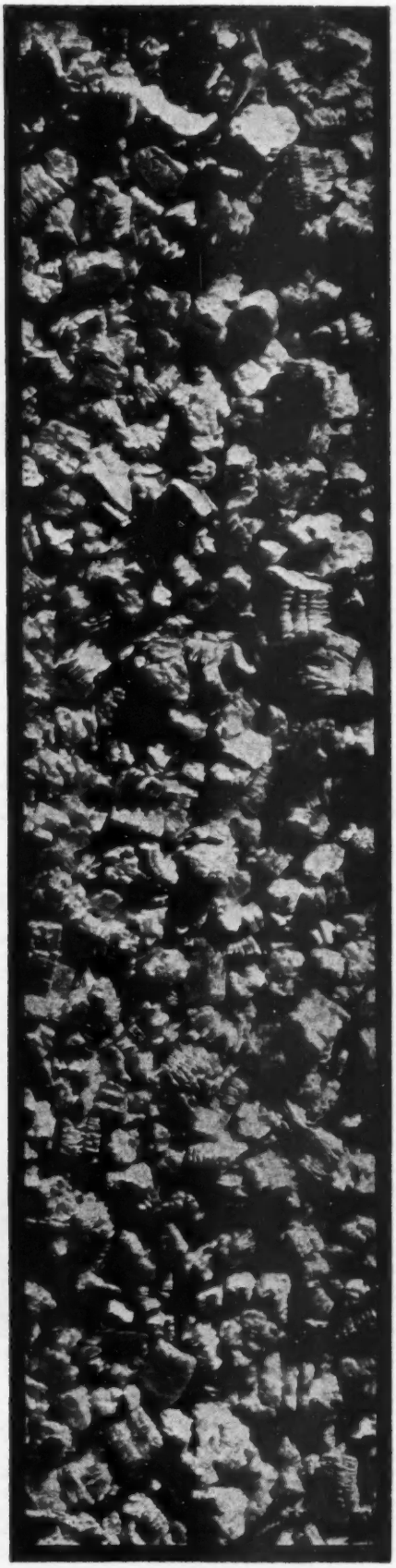

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took unlimited time and cost an appalling amount of money.

Another equally effective way of doing it was to convert the pavements on either side of the street into road space, thus permitting traffic to have more room. To make up for the elimination of pavements it would be necessary to take space behind the shopfronts for a new pedestrian pavement. This would take 10 or 12 ft. from the depth of the shops, it would require cutting through party walls to allow the new sidewalk to be continuous, but it would permit at least two additional lines of traffic.

Compulsory purchase procedure would obviously have to be adopted and that would be costly, but clearly it was either this or, in a year or so's time, there would occur complete traffic stagnation at such points. Was it not worth going to this trouble now? The Rue de Rivoli in Paris indicated the general appearance this new arrangement would have. The principle was demonstrated at the Westbury Hotel, in Bond-street, and had been voluntarily carried out by Kennard's of Croydon. These examples indicated that widening could be completed infinitely more quickly and cheaply than by pulling down a row of existing buildings and then rebuilding.

For a thousand years men had been content to add an upper storey to their houses, but they had seldom double-decked their roads. But as most congestion started at the entries to the larger cities, each of which had two or three railway lines entering from the outer districts, why not construct over these rail tracks an upper level road for motors and use this upper level as a main entry into the city? This principle was more or less adopted in New York—in fact, he had quite a little to do with it—to bring the trains along under Park Avenue and into the New York Central Station and allow conveyances to come over it by the two levels. This worked perfectly and could, if we desired, be copied in our congested cities.

The United States had constructed many turnpikes and parkways which cut many miles off the motorist's journey to New York City. In many instances they were paid for by tolls. He knew the British disliked tolls, but if their use meant preventing traffic stagnation and innumerable accidents, should they not give them much further consideration? This idea was well worth considering.

Other Business

Building in Essex Green Belt

MR. BIGGS-DAVISON asked the Minister of Housing and Local Government on May 3 what was the Government's present policy regarding new building in the green belt in Essex.

MR. BROOKE wrote: 'As regards the approved green belt, my policy is in line with that stated in the county development plan and in a circular issued by my predecessor in August, 1955. The advice given in that circular applies also to the additions to the green belt which the county council, as local planning authority, are now proposing.'

The Piccadilly-Knightsbridge Underpass

Contractors to Use New Constructional Techniques

SOME interesting new techniques are to be employed by the contractors, Cubitts Fitzpatrick Shand, on the London County Council's £3m. Hyde Park Corner-Marble Arch improvement scheme (which includes the Piccadilly Knightsbridge underpass), work on which began on Monday (May 9). The contractors will use what is claimed to be the largest assembly of plant and equipment employed on a London road building operation since the war, valued at some £¼m.

Among new techniques never before used in this country CFS will introduce the Italian ICOS-Veder process which provides support to the sides of the excavation for the 1,000 ft. long twin two-lane underpass Piccadilly-Knightsbridge at Hyde Park Corner before large scale excavation begins.

Prefabricated materials will be used in most of the 15 pedestrian subways (combined length 2,500 ft.) to save up to four weeks' site work on each of the subways concerned.

A labour force of over 300 will work on the 28-month contract which, in addition to the underpass, includes a wide dual roadway the length of Park Lane, and new traffic circuses at Hyde Park Corner and Marble Arch.

To maintain speedy work with the minimum of traffic delays the contractors will control operations from a single-storey central office block in Hyde Park, where over 40 project staff will work as an independent and fully integrated contract organisation. More than a score of GPO telephone extensions will link this nerve centre with all parts of the site.

A large fleet of mobile compressors and compressed air equipment will break up 12,000 cu. yd. of existing roadway. Excavators, draglines, face shovels, loading shovels, trenchers and grabs will excavate an estimated 240,000 cu. yd. of earth, and 170,000 yards will be carted away to tip at a rate of up to 300 lorry loads a day. A fleet of 80 trucks will be used.

Excavation Methods

Before the trench for the underpass is cut, reinforced concrete retaining walls will be constructed by the Italian ICOS-Veder process over an area of 168,000 sq. ft. The process involves the excavation of a 20 in. wide trench to the depth of the retaining wall—in this case generally 40 ft. and in parts 50 ft. Four special grabs from Italy will be used for this operation.

The sides of the trench are stabilised during excavation with a specially prepared Bentonite suspension. This will require between 1,000 and 1,500 tons of materials. (Bentonite is a special type of clay also used by oil well drillers because of its properties in stabilising deep borings).

Reinforcement and concrete are placed in exactly the same way as for underwater construction, i.e., the reinforcement is placed into the Bentonite-filled trench, and the concrete is deposited through a Tremie pipe.

The Bentonite suspension, displaced by the concrete, flows into adjoining sections of the trench where excavation is in progress and is thus re-used.

Excavation for the underpass follows the completion of sections of the ICOS retaining walls. Steel struts are inserted as excavation proceeds. These struts will be positioned at carefully selected levels to give the minimum interference with following construction and preloaded to ensure that there is no movement of the ground.

Cranes will lower specially adapted 10 RB excavators with shortened jibs into the underpass excavations to loosen the stiff London clay, which will then be removed by grabbing cranes working at road level.

Concrete Mixing Station

Nearly 100,000 cu. yd. of reinforced concrete will be used, including 40,000 cu. yd. on the Hyde Park Corner underpass. A central mixing plant 50 ft. high will produce some 6,500 cu. yd. of concrete a month at the peak period. This will be a Road Machines plant incorporating the latest type of Swedish Feimert 1500 turbo mixer which materially reduces mixing time. The plant will be loaded by Weatherill high discharge shovels. A fleet of 4-ton Blaw Knox high discharge truck mixers will distribute concrete from the central station to all parts of the site.

For 15 months a specially designed steel viaduct will carry west-bound traffic on the South Carriageway, Hyde Park over a new temporary link road diverting east-bound traffic from Knightsbridge. A total of 20,000 sq. yd. of temporary roadways will be constructed. Temporary underground station entrances will replace existing structures until the underpass is completed, when new entrances will be opened.

Modern spreading and surfacing equipment will lay 73,000 sq. yd. of new 12 in. thick reinforced concrete roadway, and 88,000 sq. yd. of asphalt and tarmacadam will cover this and resurface existing roads. There will be 41,000 sq. yd. of footways stone paved or asphalted.

Other plant and equipment to be used will include: A 30 RB crane and grab, a 605 NCK crane and grab with 70 ft. jib, two mobile Neal 4-ton cranes, one ten ton electric derrick, two Traxcavators, six small excavators of various type and a substantial fleet of dumpers.

Organisation

The contract manager for Cubitts Fitzpatrick Shand is Mr. D. G. Jarvis, AMICE.

The work is being carried out under the direction of the LCC's chief engineer, Mr. J. Rawlinson, CBE, M.Eng, MICE and the senior divisional engineer, Mr. F. M. Fuller, OBE, BSc(Eng), MICE. The Council's resident engineer is Mr. G. N. Dennis, MBE, AMIMunE. Consulting engineer for the design of the underpass is Mr. Iorys Hughes.

Progress at Norwich

Work of City Architect's Department

AN INTERESTING variety of work, completed and in progress, is recorded by Mr. David Percival, BA Arch (Lond), ARIBA, MTPI, Norwich City Architect, in his report for 1958-59, presented to the Council on May 3. The work included a good deal of housing and redevelopment, schools, a sewage-pumping station, a livestock market, a covered swimming pool and the repair and maintenance of buildings of historic interest, the value of building accounts brought to final settlement for the two years being £1,269,058. Mr. Percival states that the resumption of fixed price tenders without any allowances for rise and fall in cost of building materials or wage rates is already showing reduction in administrative costs.

In the course of a full and lively report, Mr. Percival records that, following the Civic Trust's scheme for Magdalen-street, general interest in the use of colour in the external improvement of buildings has shown a marked advance. He has given informal advice to a number of firms on the co-ordinated redecoration of their premises, and a scheme for the redecoration of the Market Place, in which two dozen occupiers of premises are collaborating, is in hand. Of the 500 planning applications referred to him for advice on elevations, 60 per cent were submitted by the applicants themselves, by surveyors or builders; the remaining 40 per cent by architects on behalf of their clients.

The report, a commendable production of the 'home-made' kind, contains numerous reproductions of plans, photographs and drawings.

European Joinery Federation

Mr. W. R. Price of EJMA Elected President

AT THE ANNUAL MEETING of the European Joinery Federation held in Madrid recently, Mr. W. R. Price, president of the English Joinery Manufacturers' Association, was unanimously elected president of the European Federation, in succession to Mr. C. J. van der Giessen of Holland, who retired after holding office for the past three years.

Discussions at the Federation meeting of special interest to the English delegation centred round the quality of European redwood exports. In this connection, good wishes from the Federation, particularly from the German and Dutch delegates, were given to EJMA for their London meeting on May 19 in conjunction with the Timber Trades Federation to discuss redwood quality with Swedish and Finnish shippers. Results of the discussions are awaited with interest by the European Federation.

The meeting of the European Joinery Federation, whose official title is the Federation Europeenne des Syndicats de Fabricants de Menuiseries Industrielles de Batiment, formed part of the annual conference of the European Confederation of Woodworking Industries. The countries represented at it included the United Kingdom, France, Spain, Italy, Western Germany, Holland, Belgium and Austria, with the president of the Swedish Joinery Manufacturers' Association.

At a meeting of the technical subcommittee of the conference arrangements were put in hand to procure statistical and other comparative information on how the various member-countries are seeking to compete effectively with substitute materials, on ways adopted in various countries of protecting wood surfaces against humidity, attacks by atmosphere, pests, etc., and on the steps being taken to increase and rationalise output by modern machinery and automation.

The delegation to the conference from the English Joinery Manufacturers' Association consisted of Mr. W. R. Price (president), Messrs. J. Whitaker and T. J. Mosesson (vice-presidents), Mr. G. Fish (council member) and Mr. P. Allnatt (director). Another delegate to the conference was Mr. Addy Taylor, representing the Box and Packing Case manufacturers. Mr. Taylor is himself a former president of the European Confederation of Woodworking Industries.

Housing on the Isle of Man

Extra Charges to be Levied by Council

SINCE the end of the war some 3,210 new houses have been built in the Isle of Man. Local authorities have been responsible for 1,221, private enterprise 1,490, the Local Government Board 467, and other government departments 32. 'The demand for new houses,' says the Local Government Board, 'appears to have been substantially met and both private and public authorities' housing schemes are to all intents at an end, although from comments in the Press it appears that the Douglas Corporation still require more.'

A recommendation of the Estates Committee that there should be an additional charge of 2s. 6d. per week for every person lodging in a corporation house, and an extra payment of 10s. per week for each separate family was approved by the Douglas Town Council on April 13. Before the recommendation can be enforced it will have to receive the approval of the Local Government Board.

Personal Column

The Vale & Towne Manufacturing Company have appointed MR. HARRY MARSHALL export manager of its British lock and hardware division.

MR. F. A. BIRTLES, general manager of the Midlands Division, has been appointed to the board of the parent company, Concrete Ltd., with effect from May 3.

News in Brief

Employment in Building

THE NUMBER employed in the construction industry at the end of March was 1,509,000, an increase of 15,000 compared with the previous month, according to Ministry of Labour statistics. During M[illegible], the number in civil employment is [illegible]nated to have increased by 5,000 to 23,[illegible]43,000.

Auctioneers' President

MR. W. FRANKLIN BEAVAN, DL, JP, of Liverpool, was today elected president of the Chartered Auctioneers' and Estate Agents' Institute for the year 1960-1961.

ADA President

AT THE ANNUAL GENERAL MEETING of the Aluminium Development Association on April 29, Mr. W. Brining, FCA, was elected president for 1960/61.

Domestic Heating and Insulation

BUILDING RESEARCH DIGEST NO. 133, 'Domestic Heating and Thermal Insulation' (HMSO, price 4d.), just published, has been prepared in response to requests from a number of inquirers who have asked for a short statement on domestic heating and insulation already covered in greater detail in the previous Digests.

LMBA Golfing Society

AT THE Spring Meeting of the LMBA Golfing Society, held at the Royal Wimbledon GC, both the President's Cup and the Committee Cup were won by M. J. Grant, the Garrett Trophy was won by K. A. Rose, and in the Fourball v. Bogey the winners were R. J. Rowley and W. J. Jerram.

The Late Mr. P. D. Philip

THE death occurred on April 21 of Mr. P. D. Philip, who was the senior active executive in the flooring trade, and his wide technical knowledge is a great loss to the industry. Mr. Philip joined Jos. F. Ebner in 1901 and also founded the Philip Flooring Co., Ltd. He was managing director of both firms. One of the earliest secretaries of the Flooring Association, he was also president for two consecutive years; he also served on the councils of the LMBA and TDA.

Direct Labour, Wellington

A PROPOSAL to start a small direct labour section to build houses has been approved in principle by Wellington (Salop) RDC. The section would build small groups of houses and bungalows and modernise older council houses. The housing committee reported on a decision to deduct sums from building contracts through non-completion in the stipulated time.

Two years intensive research went into its development. Its properties are unique. Its application revolutionary. The entire process of using laminated plastics can now be considerably extended and greatly simplified with . . .

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No uneven laminations.
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The surfacing and the surface.
Since FORMICA Beautyboard combines the decorative surfaces, the core and the balancing veneer it will simplify considerably many familiar applications. Wall cladding and partitioning with FORMICA decorative laminates are merely two examples.

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For the complete details, write to—FORMICA Ltd. (Beautyboard enquiries) De La Rue House, 84-86 Regent St., London W.1. *FORMICA is a regd. trade mark

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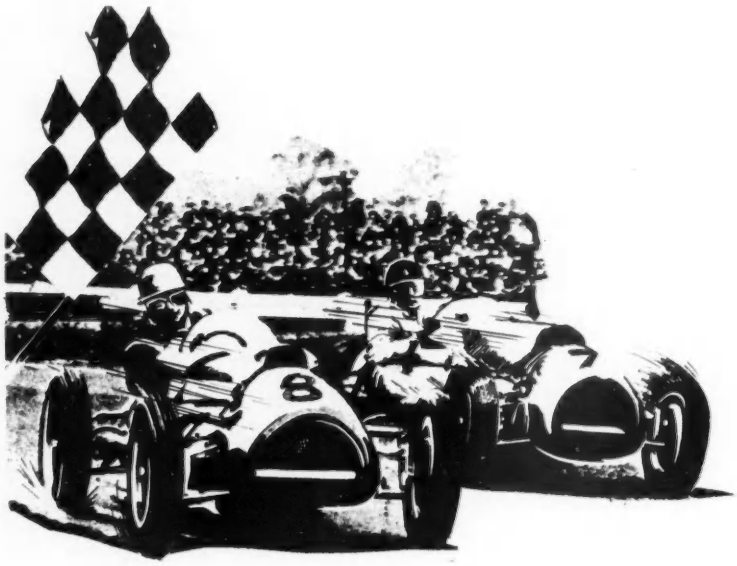

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8 Baring Crescent, Exeter,
also at Royal Buildings,
St. Andrews Cross, Plymouth.

PAINTING:
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8 Baring Crescent, Exeter,
also at Royal Buildings,
St. Andrews Cross, Plymouth.

SOUTHAMPTON

PLASTERING:
A. C. V. Telling (Southern) Ltd.
10 Cumberland Place, S'hampton.

PAINTING:
P. J. Hartel (Southern) Ltd.,
10 Cumberland Place, S'hampton.

British Standards

Classification of Wood Preservatives ; Combination Hot Water Storage Units ; Fixed Playground Equipment for Schools, etc.

Classification of wood preservatives and their methods of application (BS 1282 : 1959)

THAT PREVENTION is better than cure is the emphasis of this revised British Standard on wood preservatives. First published in 1945 in a more limited form, the standard now deals at some length with the various methods of application, the selection of wood preservatives, and treatments for various purposes. The grouping of preservatives into tar oil types, organic solvent types and water-borne types proved convenient and has been retained. The main hazards are briefly described, and, although remedial measures for timber which has already been attacked by fungus or insect are outlined, the emphasis is on prevention.

Three appendices give information on the resistance of the heartwood of some common woods to impregnation with preservatives, a list of naturally durable woods, and a bibliography of detailed information on the subject. This standard is a guide and classification only, and the foreword warns that no form of words indicating that a preservative or preservative treatment conforms to BS 1282 should be used, as it would convey no meaning. (Price 6s.)

Combination hot water storage units (copper) for domestic purposes (BS 3198 : 1960)

THIS NEWLY-PUBLISHED standard (price 4s. 6d.) aims to give the requirements necessary for good performance and reliability of combination tanks, while at the same time leaving the manufacturers free to develop actual design. For this reason careful consideration has been given to the inclusion of requirements for the materials, construction and tests, rather than to dimensions, which have been omitted as far as possible. It is one of a series on water storage vessels mainly for domestic use.

'Combination tanks' are designed primarily for use with water heating appliances connected by pipework. Provision can also be made for attaching an electric immersion heater or gas circulator, and it is advised that any connections for these should be fitted during the manufacture of the units and not subsequently. They can be blanked off if not required immediately. Two types of combination unit are dealt with, the 'direct type' for soft-water areas, and an 'indirect' type for hard-water areas or where it is essential for other reasons that the circulating water is kept separate from the hot water supply.

Couplings, branch pipes, nozzles, strainers and auxiliaries for fire hose (BS 336: 1960)

THIS STANDARD (price 8s. 6d.) has been completely revised and now includes specifications for dividing and collecting breechings, standpipes, branch-pipes, nozzles, suction strainers and foam inlets. Dimensions for tools for auxiliary use (spanners and hydrant key sockets) have also been added.

Fixed Playground Equipment for Schools (BS 3191 : 1959)

THE FIRST two parts of this standard are now available. They deal with apparatus fixed in school premises and for use by children up to the age of twelve. Part 1, price 4s., under headings of 'General Requirements,' specifies materials to be used, finishes, packaging and marking, assembly, erection, and maintenance. Part 2, price 4s. 6d., 'Rope Equipment,' deals specifically with rope attachments to school playground equipment. It comprises detailed requirements for climbing ropes, hand rings, parallel ropes, rope ladders, scrambling nets and trapezes.

Portable Equipment for Physical Education (BS 3194 : 1959)

THIS STANDARD deals with equipment for use in nursery and primary schools and, apart from factors considered essential for safety, no attempt has been made to standardise design. Part 1, price 4s., under the heading of 'General Requirements,' specifies details for materials, workmanship, finish, soundness of construction and safety. Part 2, price 4s. 6d., 'Design Considerations,' is designed to stimulate more thought on the performance of the apparatus in the particular circumstances in which it will be used. One purpose is to prevent limitations in the design of physical education equipment.

CTC and CB Portable Fire Extinguishers (BS 1721:1960)

THIS STANDARD includes requirements for chlorobromomethane extinguishers and makes references to certain relevant British Standards published subsequent to the first edition of BS 1721. The new publication, price 6s., deals with carbon tetrachloride and chlorobromomethane fire extinguishers, including the hand pump, gas container, constant pressure and air pump types. Standard tests and the nature of the information that should be displayed on the outer casing are given. Among the headings under which standard requirements should be laid down are liquid content ; performance ; bracket and seal ; anti-corrosion treatment ; checking of contents ; construction of body and fittings ; and containers. Three appendices cover respectively materials suitable for welding or brazing, methods of welding and a tabulated summary of requirements.

Dimensions of Hose Connections for Welding and Cutting Equipment (BS 1389:1960)

THIS PUBLICATION is a revision of the standard first issued in 1947. It extends the range of thread sizes to cover $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{3}{4}$ in. from the BSPF series. The standard, price 4s., perpetuates the established practice of using left-hand threads and notched hexagons for combustible gases and right-hand threads and plain hexagons for non-combustible gases.

Heaters for Tar and Bitumen—Mobile and Transportable (BS 1676:1960)

THIS STANDARD, price 3s., is a revision of the edition first published in August, 1950. It again specifies 10 standard capacities for heaters although the small sizes are now based on the normal commercial practice of using 40 gall. drums. There is a new provision for additional air space to allow for frothing, expansion or overfilling. Constructional details are specified in greater detail and special attention has been paid to safety.

Timber Ladders, Steps and Trestles (BS 1129:1960)

This publication, price 6s., has been revised mainly to adjust the sizes of stiles of some types of ladder, thereby diminishing waste in cutting the timber and also overcoming the complaint that the standard ladders were heavy to handle. The new sizes, already in use by some manufacturers, have been proved satisfactory; but, in order that those who prefer the heavier types may still obtain them, the new dimensions have been specified as minima so that 'standard' ladders to the original dimensions may still be supplied if asked for.

Test Methods for Bitumen (BS 3235:1960)

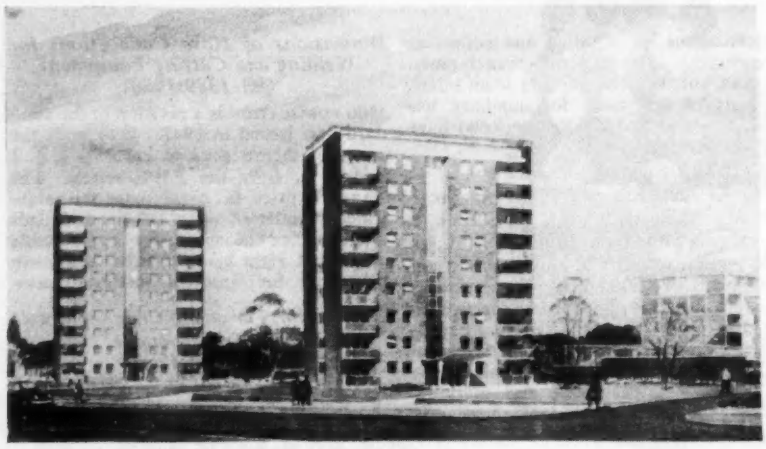
THIS NEW publication, price 8s. 6d., contains eleven authoritative general methods of testing bitumen suitable for the specification of bitumen-containing compositions used in the building, road engineering and electrical industries.

The methods, which are technically identical with the corresponding methods of the Institute of Petroleum, are for the determination of: Ash; ductility; flash point (open) and fire point, using Cleveland apparatus; flash point (open) and fire point using Pensky-Martens apparatus; fluxing value of flux oil; loss on heating bitumen and flux oil; penetration; softening point (ring and ball); solubility in carbon disulphide; viscosity of cutback bitumen and road oil; water content (Dean and Stark method).

Copies of these Standards may be obtained from the British Standards Institution, Sales Branch, 2 Park-street, London, W1. Postage will be charged extra to non-subscribers.

Lift Slab Construction

Successful Experiment at Birmingham



Perspective showing two of the nine-storey blocks

THE LIFT SLAB system has been used successfully in the construction of three nine-storey blocks of flats at Long Nuke-road, Bangham Pit Estate, Birmingham. The project is part of a Corporation housing scheme under the direction of the City Architect's Department, chief architect, Mr. A. G. Sheppard Fidler, MA, FRIBA. The contract was awarded in September 1959 to British Lift-Slab Ltd., a subsidiary company of R. M. Douglas (Contractors) Ltd., the holders of the British patent rights for the Youtz-Slick lift slab system. Work was started on the site at the end of September 1959 and it is anticipated that the buildings will be completed towards the end of the year.

The contract is for 108 dwellings in three 9-storey blocks. Each block has four dwellings per floor, banked in pairs on either side of the public circulation area, served by two staircases on opposite sides of the building, and by a single 8-person express passenger lift.

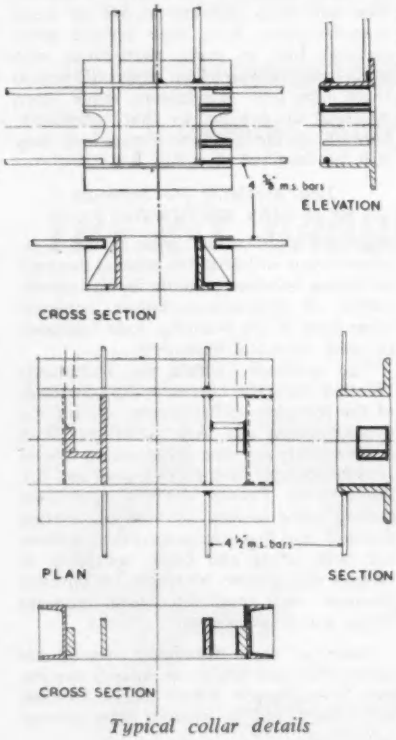
The blocks are in framed construction each with 24 concrete-encased steel columns supporting 6½ in. precast plate floors. Cavity spine walls between the dwellings consist of two 2½ in. leaves in load bearing concrete blocks. The 1 in. cavity is filled with fibre glass insulating quilt. External walls are in brick cavity construction with an inner leaf of light-weight aggregate concrete blocks.

The principles of the lift slab technique are simple: the foundations and ground floor slab are constructed as in conventional practice. Lifting collars are threaded on to the structural steel columns and wedged at a sufficient distance from the base plates to provide working headroom; the columns are then erected, plumbed and grouted, and ground floor slab laid. A separating medium is now applied to the ground floor, in this case polythene sheet. This sheet acts as a curing membrane and prevents the new concrete of the subsequent slabs from bonding to the slab below.

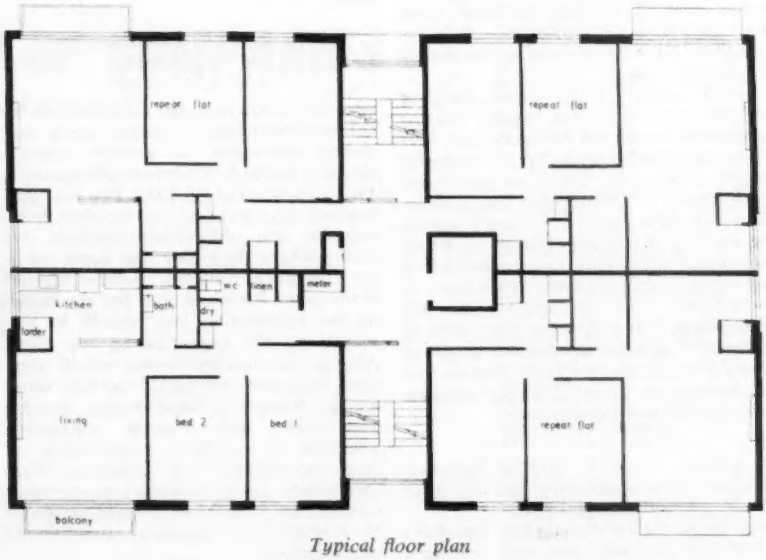
When the ground floor slab has cured sufficiently the lowest collar on each column is lowered into place, reinforcement is fixed in position and concrete is placed in the normal manner to complete the first floor slab. This procedure is then repeated for the remaining slabs until all have been cast. For convenience each floor slab is divided into two sections, each approximately 35 ft. x 50 ft. with a connecting link, which includes the staircases cast 'in situ' in the usual way.

Hydraulic Jacks

As soon as the roof slab has attained sufficient strength lifting can be started. Hydraulic jacks are set at the top of each column and the slabs are lifted to their correct levels (starting with the roof and upper floor slabs) using special threaded rods, passing through the jacks and attached to the collars which have been cast into each slab around every column. When the floor slabs have been lifted to the correct height they are fixed permanently in position by fillet welding shear blocks to the column at the base of the collar.



Typical collar details



Typical floor plan

Structural requirements limit the height of columns that can be erected at one time and usually in multi-storey buildings the first column lift is about 40 ft. high. Where more than one column lift is required the lower floors are raised and fixed in their final position and the upper floors are secured temporarily and hoisted into their final position after the upper columns have been welded to the stubs of the lower. The rate of lifting is about 4 ft. per hour.

Lifting Sequence

At Birmingham there were three column lifts. When the first lift of columns was completed and the nine slabs cast and cured at ground level, the roof slab was raised to a temporary position at the top of the first lift of columns. The temporary attachment was made by welding as for a permanent fixing, the slab being subsequently freed by burning.

Slabs 5, 6, 7 and 8 were lifted together and 'parked' (temporarily attached to the columns) beneath the roof slab. Slabs 1, 2, 3 and 4 were lifted together, and slabs 1, 2 and 3 fixed in their final positions; slab 4 was left parked on top of slab 3. The jacks were then removed from the tops of the columns and the column extensions spliced on.

The roof slab was then lifted to the top of this lift of columns and 'parked.' Slabs 5, 6, 7 and 8 were lifted together and slab 5 secured in its final position. Slabs 6, 7 and 8 were left parked on slab 5. Slab 4 was lifted to its final position and secured. Slabs 6, 7 and 8 were lifted and slab 6 secured in its final position. Slabs 7 and 8 were left parked on slab 6. The final lift of columns was then spliced on. The roof slab was lifted into position and slabs 7 and 8 were lifted to their final positions and secured. The maximum number of slabs lifted or parked together at any one time was four.

Accurate Control

An essential feature of lift slab work is that the columns should not be racked by uneven lifting; the control which ensures that the slabs rise level to within ¼ in. or less throughout the process is a console. These consoles, mounted on the topmost moving slab and managed by one man, govern the individual speed of operation of every jack in use and thus keep the slabs level.

The steelwork in the columns consisted of 10 in. x 10 in. or 8 in. x 8 in. universal beam sections and the use of these enabled the lifting collars to the slabs to be partially embedded in the concrete column casing, so that they did not oversail the cavity in the external walls. An interesting innovation by the contractors was the use of steel collars fabricated from angle sections, instead of the cast collars with integral keyhole slots in the ears as generally used in America.

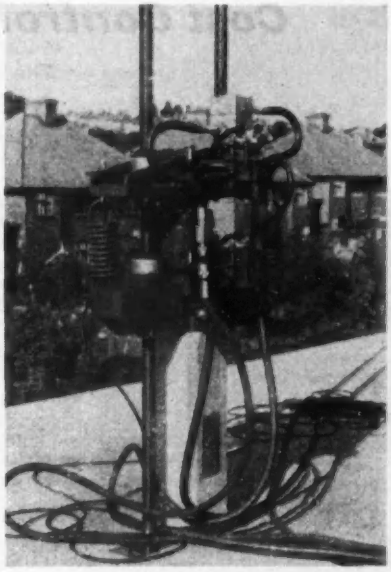
The 1¾ in. high tensile steel rods from the jacks were threaded through the concrete, moved across with their end bushes under the collar and held there in the lifting position. The collars themselves were threaded onto the columns on the ground instead of being placed by crane after the columns had been raised.

Structural Design

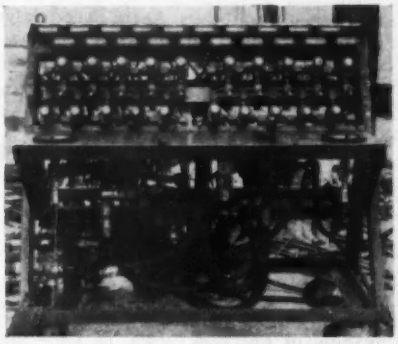
Structural design with lift slab construction differs little from that required for normal designs with flat plate slabs, being based on the moment distribution analysis for continuous frames in CP 114. Special factors such as temporary stresses on the columns and slabs during lifting are limited by the operator of the console, the lifting sequence, and by keeping the columns plumb at all times.

Foundations, though basically normal, must provide a rigid connection with the column base in order that the column may act as a cantilever. The stability of the whole system depends on the quality of the welded joints.

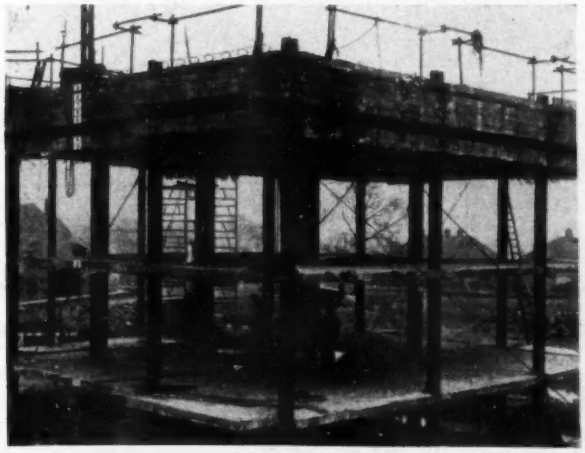
For any complete assessment of the advantages of lift slab in multi-storey housing, a purpose-designed block, allowing full floor casting with possibly built-in horizontal heating panels, services and insulation would be required. Nothing of the kind was contemplated in this experiment whose merit consists precisely in the fact that it has been made with a type plan, adaptable to other constructional methods.



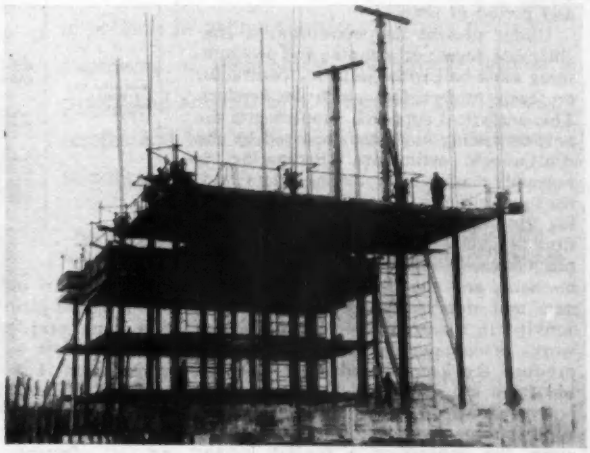
A hydraulic jack of the type used for slab lifting



The console at which one operator controls the lifting jacks



End of lifting sequence of the first lift on the first half of block one



Further stage of construction, first lift, second half of block one

Cost Control: The Contractor's Contribution

The Analytical Approach to the Estimator's Task

Prior to its merger with the Management Committee the RIBA Cost Research Committee invited Mr. H. J. Cruickshank, AMIMechE, FIOB, managing director of Gilbert-Ash Ltd., to write a paper dealing with the contractor's contribution to cost control with particular relation to site operations and plant. A conclusion drawn by Mr. Cruickshank is that cost implications can only be obtained in joint consultation with those entrusted with construction—the contractors. They were ready, he said, to accept an invitation from the client, the architect or the quantity surveyor to join the team. Mr. Cruickshank's paper is given in full below.

AT THE RIBA Cost Control Conference at Missenden, in January, a paper was presented by Mr. S. A. W. Johnson-Marshall, CBE, BArch, ARIBA, in which he stated: (a) that clients were becoming more exacting about what they wanted for their money; (b) that there was an increasing need for good budgeting; (c) that firms providing an 'all-in' service had the advantage of integrating quantity surveyors, builders, and architects as one unit.

A reader of this paper gains the impression that Mr. Johnson-Marshall admits an advantage is gained if a building contractor is integrated into the budgeting process of design, for the quantity surveyor and architect already work as a team on most projects. There is certainly a strong case to support this opinion, although constitutional difficulties stand in the way of its general fulfilment.

Cost Research

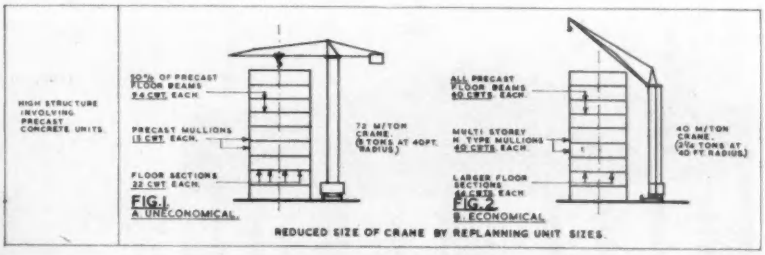
The basis of good budgeting is an accurate knowledge of up-to-date costs. Many contractors have now established 'cost research departments' in one form or another. Their objective in voluntarily increasing their overhead expenditure in this branch of research may be summarised as follows: (a) to improve efficiency, and, by the methodical analysis of operating costs, to keep up to date their methods of estimating and construction; (b) to provide clients and/or architects, who seek their services, with a sound basis upon which to plan and design a project within a given budget and period of time.

Under present day conditions a considerable degree of planning and programming must be carried out by a contractor on each project for which he tenders. This analytical approach supplements the normal pricing methods employed by the contractor's estimators. Estimating is normally based upon average data and, for some projects, is insufficiently discerning for keen pricing and rapid construction periods. The introduction of new mechanical equipment, shuttering methods, and the like, has demanded a new and detailed study of operational activity. In consequence, a planning team works in conjunction with estimators to produce the keenest and most practical bid for a job.

Over a period of time this analytical approach to planning and tendering has given the contractor a special insight into the relative cost values of architectural layout and design. In particular (at the present time) this is true for schools and office buildings where the functional requirements are reasonably standard. Thus a contractor who builds many schools will develop special techniques of construction. These techniques can influence and economise some aspects of design detail, without detracting from the quality of the finished product. The level of school building costs, pegged by the Ministry of Education over many years, together with the steadily decreasing construction periods, is an outstanding example of this analytical approach.

It is difficult in a short article to select an adequate number of examples which illustrate the full benefits to be gained by an architect using the cost and operational research data kept by a contractor for planning and estimating, but the following are indicative of the type of information which is available.

Plan Shapes. It is an accepted fact that the plan shape of a structure (i.e. the ratio of perimeter to floor area) directly affects the cost of many elements, particularly wall areas and the structural frame. Any research into this aspect of planning requires a wide range of samples, using structures of *identical* form and load capacity, and made up of units priced on a standard basis. Opportunities for sampling, within these restrictions, rarely occur to the architect or quantity surveyor. For some contractors this type of research is continual.



In order to judge the importance of the design of plan shapes alone the variation in uniform types of structural frame costs per foot super of floor area can range from 1 to 1.5 (taken over 58 samples). The progressive contractor is studying what other elements in a building are influenced by plan shape alone, e.g. all elements in the perimeter of buildings.

Storey Heights. Research into the costs of varying storey heights for school buildings (within the limit of four storeys) revealed (in 1957) the following order of economy:

	Framed	Unframed
(cheapest)	2 storeys	2 storeys
	3 storeys	1 storey
	4 storeys	3 storeys
	1 storey	4 storeys

A similar research is being made, by various firms, into data on offices, flats, and industrial structures.

Concrete. Contractors are finding concrete mix design; concrete precasting and prestressing techniques; and concrete structures, a fruitful field for cost research. Data from a wide range of concreting operations indicate that the following factors should be taken into account at the design stage of most projects:

(a) Is speed of construction the critical factor?

(b) Is cost of construction the only criterion?

(c) Are the concrete mixes specified, based upon economical mix design, or merely standard specifications (e.g., by volume)?

(d) If a combination of 'in situ' concrete and precast concrete is specified, will the quantities permit a continuous building operation, and a full utilisation of plant?

(e) Will the contractor use cranes, or hoists, for lifting operations? If cranes are to be employed, type and capacity should be determined, and structural units and other building elements designed to employ maximum crane capacity as much as possible.

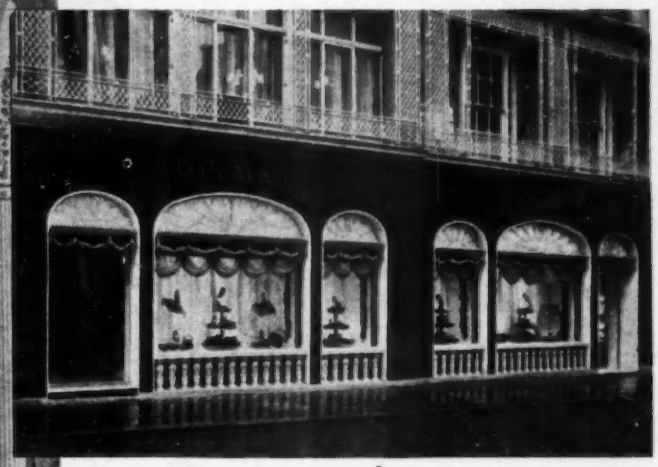
A typical example of the influences arising under this heading may be taken from a multi-storey office building where the following elements had to be lifted by the contractor:

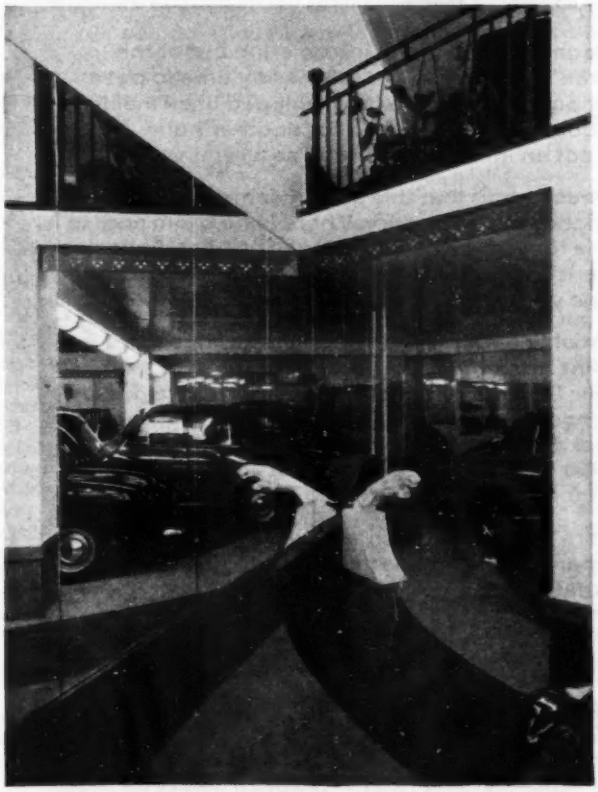
Item	Weight per lift
Precast concrete mullions	15 cwt. each.
Items for 'in situ' portion to floors ...	22 cwt. each (aver. lift).
Special precast beams for 50 per cent of each floor	94 cwt. each.

(Fig. 1.)

The crane provided had to cater for the

Rayne's — Old Bond Street, W.1,
to the instructions of G. Jackson & Sons Ltd.
Designer : Oliver Messel





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to the instructions of County Glazing (Kent) Ltd.

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It's time you discovered the advantages of 'Atlas' asbestos cement sheeting...

You don't get too much information out of the Cuckoo in the clock. There's hardly time to put a question to him before he's whipped back inside his house and is sealed up for another hour. He's not an informer so much as a reminder.

We must admit that this advertisement falls into much the same category. There is no room here to outline for you all the advantages of Atlas Asbestos-Cement corrugated sheeting; only to tell you that it helps you build faster, smoother and cheaper.

Room only to say that for purlin spacings up to 4ft. 6ins. maximum you cannot better Atlas "Major Six" corrugated sheets, and where purlin spacings are at wider than normal pitch, Atlas "Major Span" will answer all problems peculiar to those circumstances, with a 6ft. 6ins. maximum purlin space.

You are welcome to contact us at any time—whether you tell it by wrist, pocket, cuckoo, grandfather; or even sun-dial.

THE Atlas Asbestos CEMENT COMPANY LIMITED

ARTILLERY HOUSE, ARTILLERY ROW
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heaviest lift, over a considerable period, during which time its full capacity was used to a limited extent only. The computed extra cost, incurred by infrequent peak load usage, was £4,000 on a structure valued at £50,000 (total value of contract £210,000). (Fig. 2.)

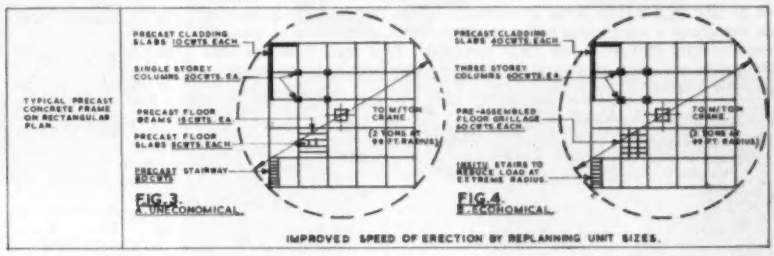
Approach to Construction

On major contracts architectural layout and general specification influence the contractor's construction methods and equipment to a degree not yet appreciated by the designers. For example, the selection of the type of tower crane which may be used depends upon plan shape, height, maximum loads to be lifted, location of stair or lift wells, and structural stability of the frame during erection. Early consultation on these matters can affect the whole basis of a contractor's approach to construction and vitally affects price. (Figs. 3 and 4.)

Building efficiency suffers from being considered as a series of loosely co-ordinated trade operations, some of which may be designed and nominated after construction operations have commenced. With the new facilities being provided by off-site factories for prefabricated units, e.g., plumbing, heating, partitions, ceilings, etc., a wider appreciation during the design stage of the integration of these 'trades' and their influence on the overall construction economy and programme, is becoming increasingly important. The contractor's experience of programming could be a valuable asset in these considerations.

These few examples illustrate some of the factors a designer must take into account if he is to retain a strong measure of control over the ultimate cost of his project. They should be added to the items contained in the client's brief, and must be woven into the artistic and functional aspect of the whole design.

From the inception of the provisional layout, the architect should be disciplined by the control of a cost plan. The word 'discipline' is used deliberately because it is inevitable that the architect be constrained to a limited budget.



Mr. James Nisbet, FRICS, produced a strong argument (at the Missenden conference) for '. . . a cost plan to be prepared jointly by the architect and quantity surveyor; the cost data from buildings with which they are both well acquainted is obviously the best source of preparing a cost plan.' This is a start; it is imperative, however, that the architect conforms to the fundamental design data upon which the cost plan is based, and institutes a systematic method of cost control as the design work proceeds. Price fluctuations and market influences during the design period must also be allowed for.

All this does not take into account experience, the up-to-date cost data, and the latest construction techniques of the progressive contractor. As a consequence, by simple evolution clients are beginning to seek out the contractor who provides an 'all-in' service, or a contractor who will negotiate and assist his professional advisers, in order to make full use of his experience and get a product within his financial budget and to a time limit.

To quote Mr. Johnson-Marshall again:

'If the architect is to retain control of design (and the thought of losing it is unbearable to most of us) he must also control finance. It follows, therefore, that unless he knows the cost implications of what he is drawing he cannot design with confidence. And, of course, cost not only governs the area at the early design stage, but also the concept of structure and of components.'

It is submitted that full up-to-date cost implications can only be obtained in joint consultation with those entrusted with construction — the contractors. They are ready to accept an invitation from client, architect, or quantity surveyor to join the team.

Book Review

Architects' Working Details No. 6

ARCHITECTS' WORKING DETAILS, NO. 6. (London: The Architectural Press.) Price 25s.

ONCE UPON A TIME those of us who had been well grounded in the standard text books knew the answers to questions of construction. If we did not we could always turn to page so-and-so to find the problem lucidly explained. As the eminent educationist of Dotheboys Hall would have said, 'w-i-n-d-e-r-, winder; now go and clean it.' But all that is changed, it seems, since building took on the 'new look.' 'Autres temps, autres moeurs.' However serviceable and well used in the stagnant past the old prescriptions no longer meet the case. Invention now is all to the fore and the spirit of progress so essential in a brave new world finds scope in every bead and muntin.

All this adds immensely to the excitement of designing. It adds, as well, to the time required to do it. Anyone who has tried will know the difficulty of inventing something new. Even variations on an old theme are apt to be exacting. And then there is the anxiety as to whether the new thing will really work. It may give some assurance to a busy practitioner of the 'avante garde' if he can turn to 'Architects' Working Details,' No. 6 of the series, published by the Architectural Press, and dedicated to examples from abroad.

The work of architects in nine European countries is shown and there are a few examples from Canada and the USA. This origin in foreign parts means that the book is mainly an inspiration, an exposition of the kind of thing which we may try to emulate (and hope in vanity for the same process in reverse). It is not that 'they manage these things better in France' (for example) but that they manage them differently. We still have to work out our own salvation—or turn to a different book. But it is stimulating to know that difficulties comparable to our own have been successfully overcome and pleasing to find on some occasions that our problem and their solution happily coincide.

One reflection is engendered by this publication: that as our façades get simpler, as the 'new look' requires, the details which go to make them up tend to become more complex. The emphasis has shifted ground but there was not really much that the older builders missed. After all we are concerned, by and large, with the same problems—to make the buildings stand up and to keep the wind and the weather out. In principle, at rock bottom, there is no very wide difference between these new details and those they supersede. They recall a waiter's ingenuous explanation of a long list of savouries on a menu card: 'They're the same thing—but a different shape.'

JAMES BURFORD.

Books Received

***Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

CLIMATOLOGICAL & SOLAR DATA FOR INDIA —TO DESIGN BUILDINGS FOR THERMAL COMFORT. (Central Building Research Institute, Roorkee U.P.) Price 10 Rupees.

QUANTITIES & ESTIMATING FOR BUILDING TECHNICIANS (Plumbing). By John F. L. D'Este. (London: E. & F. N. Spon Ltd.) Price 15s.

UNDER THE DEEP OCEANS. By T. F. Gaskell. (London: Eyre & Spottiswoode (Publishers) Ltd.) Price 25s.

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AGGREGATES AND SAND

Delivered site in full lorry loads. Average of prices for Boroughs of Westminster, Paddington, Holborn and St. Pancras.

		£	s.	d.
Pit Ballast	per yd.	1	5	5
Pit Sand	,,	1	3	8
Washed Sand	,,	1	6	9
¾ in. Shingle	,,	1	4	3
¾ in. Broken Brick	,,	1	0	9
Pan Breeze	,,	1	0	6
Fine or Coarse Foamed Slag Aggregate	per ton	3	8	0

2 yds. of fine and 2.6 yds. of coarse per ton.

CEMENT, etc.

Including non-returnable jute sacks or paper bags.

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Best British Portland Cement. Standard Specification delivered Charing Cross area.				
6-ton loads and upwards, site	per ton	5	10	0
1 to 6 tons, site	,,	6	2	0
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1 to 6 tons do. site	,,	6	12	6
Quacrete Water Repellent Cement. 32s. 6d. per ton on ordinary cement prices.				
Sulphate Resisting Cement. 32s. 6d. per ton on ordinary cement prices.				
Red, Buff or Khaki Colorcrete in 6-ton lots	,,	8	10	0
Other colours according to colour.				
In 4-ton lots from 308s. 0d. to 778s. 0d. per ton.				
White Portland Cement	,,	13	15	6
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417 Cement (Ultra Rapid Hardening) in 6-ton lots and upwards	per ton	7	2	6
Super Cement (Waterproof), 32s. 6d. per ton above Portland Cement.				
Cullamix Tyrolean Finish, £11 8s. 0d. to £14 3s. 0d. (1-ton loads and upwards.)				
Lightning and Ciment Fondu Brands High Aluminous cement, 6-ton lots and up	,,	15	14	6
Stourbridge Fireclay, 6-ton loads at Railway Depot, London	,,	6	19	0
Stourbridge Fireclay, 6-ton loads (London sites)	,,	7	7	0
Moler Mortar Powder for Flue Bricks (London sites)	per cwt.	1	10	0

BRICKS

		£	s.	d.
Full Loads.				
First Hard Stocks	per 1,000	15	19	6
Second Hard Stocks	,,	14	3	6
Mild Stocks (Kiln Burnt)	,,	10	5	0
Mild Stocks	,,	10	0	0
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2½ in. Nominal Fletton Bricks to sites in W.C. district:				
Commons	,,	5	18	0
Cellular Commons	,,	5	18	0
Keyed do.	,,	6	0	0
Rustics	,,	7	10	0
Cellular Rustics	,,	7	10	0
Single Bullnose Commons	,,	7	12	6
Sandfaced	,,	8	10	0
Tuscans	,,	9	5	0
Saxons	,,	9	13	0
Golden Buffs	,,	10	0	0
Dapple Light Facings	,,	10	7	6
Heather Facings	,,	10	3	0
Best Blue Pressed Staffs (London stations)	,,	30	12	6
do. do. (London sites)	,,	30	14	0
do. Bullnose (London stations)	,,	31	11	6
do. do. (London sites)	,,	31	13	0
Blue Wire Cuts (London stations)	,,	27	5	0
do. do. (London sites)	,,	27	6	6
Midhurst Lime Bricks (London sites)	,,	11	0	6
Uxbridge Whites (London sites)	,,	10	19	0
Special Purpose Sandlime Bricks (London sites)	,,	8	12	0
Best Stourbridge Fire Bricks:				
2½ in. (London stations)	,,	30	12	3
2½ in. (London sites)	,,	31	1	0
3 in. (London stations)	per 1,000	36	14	9
3 in. (London sites)	,,	37	5	3
2⅞ in. Moler Flue Bricks (London sites)	,,	31	10	0
2½ in. Machine-made Sandfaced Red Facings (London sites)	,,	17	7	6
2½ in. Machine-made Multi Red Facings (London sites)	,,	17	12	6
2½ in. Hand-made Sandfaced Red Facings (London sites)	,,	18	17	6
2½ in. Hand-made Sandfaced Multi-Colour Facings (London sites)	,,	18	17	6
Hand-made Sandfaced Cherry Red Facings, Berkshire district (London sites)	,,	19	13	0
Hand-made Sandfaced Multi-Colour Facings, Berkshire district (London sites)	,,	19	13	0
Rubber Bricks for gauged arches (London sites)	,,	49	1	3
2½ in. Surrey Clamp Burnt Multi Stock Facings (London sites)	,,	15	6	6
2½ in. Surrey Kiln Burnt Multi Stock Facings (London sites)	,,	16	7	0
Glazed Bricks (London sites), White, Ivory, Brown:				
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Quoins, Bullnose and 4½ in. Flats	,,	80	0	0
Double Stretchers	,,	85	0	0
Double Headers	,,	77	10	0
One side and two ends	,,	87	0	0
Two sides and one end	,,	89	10	0
Splays and Squints	,,	83	0	0

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HOLLOW CLAY PARTITION BLOCKS (Keyed)				
Minimum lorry loads				
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BUILDING BLOCKS (Keyed)				
*3 in. (6 cavity) 110 yds.	,,		5	5
*4 in. (6 cavity) 90 yds.	,,		6	10
6 in. (8¾ in. × 5¾ in.) 1,250 blocks	per 1,000	26	18	0
* Half blocks at no extra charge.				
CLINKER CONCRETE				
2 in. 100 yds.	per yd. sup.		3	9
2½ in. 85 yds.	,,		4	4
3 in. 75 yds.	,,		5	3
4 in. 55 yds.	,,		6	5
CRANHAM TERRA COTTA				
2 in.	,,		6	9
2½ in.	,,		7	9
3 in. Load bearing quality	,,		8	9
4 in. do. do.	,,		10	9
MOLER PARTITION BLOCKS				
2 in. 150 yds.	,,		11	3
2½ in. 120 yds.	,,		14	0
3 in. 100 yds.	,,		15	0
4 in. 90 yds.	,,		17	0
LIGHTWEIGHT CONCRETE BUILDING AND PARTITION BLOCKS OF VARIOUS SOURCES OF MANUFACTURE				
2 in. 100 yds.	per yd. sup.		5	4
2½ in. 80 yds.	,,		6	5
3 in. 65 yds.	,,		7	5
4 in. 50 yds.	,,		9	4
4½ in. 44 yds.	,,		10	2
6 in. 33 yds.	,,		13	5
THERMALITE-YTONG PARTITION BLOCKS				
2½ in. 144 yds.	,,		7	0
THERMALITE-YTONG LOAD-BEARING INSULATING BLOCKS				
3 in. 120 yds.	per yd. sup.		8	5
4 in. 90 yds.	,,		11	0
5 in. 72 yds.	,,		13	9
6 in. 60 yds.	,,		16	6
8½ in. 42 yds.	,,	1	3	8
FLOOR BLOCKS AND FILLER TILES				
Floor Blocks 12 in. × 12 in. delivered in full lorry-loads:				
3 in.	per 1,000	34	1	0
4 in.	,,	36	10	0
5 in.	,,	43	15	0
6 in.	,,	49	19	0
7 in.	,,	61	8	0
8 in.	,,	71	19	0
9 in.	,,	79	3	0
10 in.	,,	87	15	0
Filler Tiles in multiples of 10 tiles per 1,000 multiples:				
12 in. × 3 in. × ⅞ in.	,,	42	15	0
12 in. × 4 in. × ⅞ in.	,,	73	15	0
10 in. × 5 in. × ⅞ in.	,,	73	15	0

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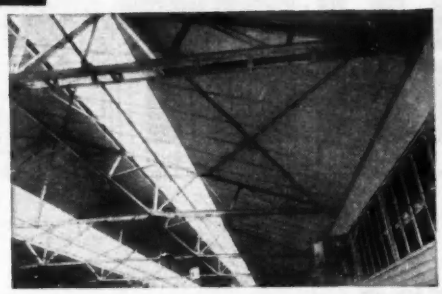

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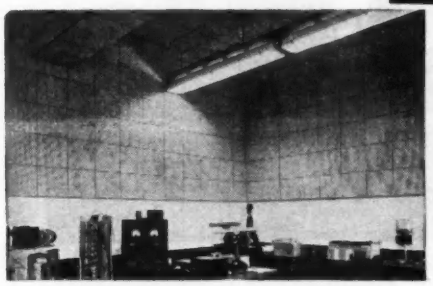

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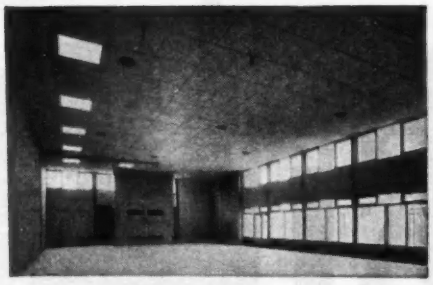

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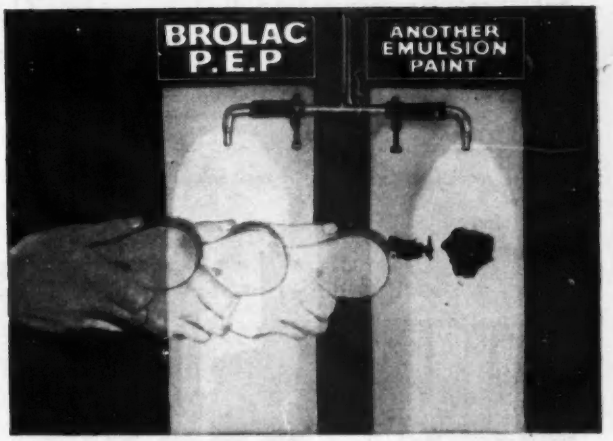

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Brolac P.E.P. and an ordinary emulsion paint are applied over a high-gloss enamel surface and allowed to dry. Both paints are then thoroughly soaked and scrubbed—hard—with a stiff bristle brush. The ordinary emulsion paint peels off—but the Brolac P.E.P. is not damaged.

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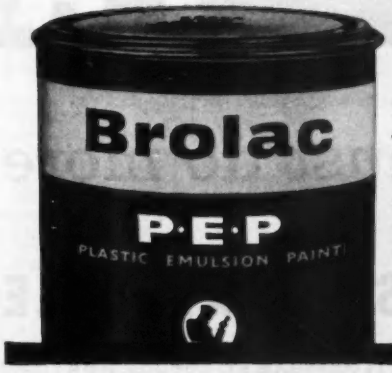

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	Over 2 tons	Over 100 pieces Under 2 tons	Under 100 pieces Under 2 tons
Best Quality ...	−10%	+5%	+12½%
BSS Best Quality...	+10% −10%	+10% +5%	+10% +12½%
Tested Quality ...	+37½% −10%	+37½% +5%	+37½% +12½%
BSS Tested Quality	+47½% −10%	+47½% +5%	+47½% +12½%

		£	s.	d.
3 in. Land Drain Pipes (in 12 in. lengths)	per 1,000	11	18	6
4 in. do. do.	,,	15	19	6
6 in. do. do.	,,	32	19	0
9 in. do. do.	,,	62	9	0

DAMP COURSE

		£	s.	d.
Hessian base bitumen 7 lb. per yd. sup. in 24 ft. rolls cut to wall widths in lots of £6 value and over delivered London area	per yd. sup.		3	2
Asbestos base do. 7 lb. per yd. sup. do. do.	,,		5	2
Lead lined bitumen do. 9½ lb. per yd. sup. do. do.	,,		12	2
18 in. × 9 in. British damp course slates	per 1,000	43	8	11
14 in. × 9 in. do. do.	,,	32	8	2
9 in. × 9 in. do. do.	,,	18	18	9
18 in. × 4½ in. do. do.	,,	19	19	9
14 in. × 4½ in. do. do.	,,	15	18	3
9 in. × 4½ in. do. do.	,,	10	14	3

STONE

		£	s.	d.
Bath Stone				
Monks Park	per ft. cube		10	3
St. Aldhelm Box Ground	,,		11	6
Delivered in railway trucks at South Lambeth B.R. Western Region.				
Doulting Stone Random Blocks. Delivered London area	,,		10	10
Beer Stone. Delivered London area	,,		10	6
Portland Stone—				
Brown Whitbed in random blocks, 25 ft. average delivered in railway trucks at Nine Elms, B.R. Southern Region	,,		9	10
Yorkshire Stone—Blue Robin Hood Quality. Delivered to site London in 6-ton lots.				
9 in. × 3 in. Rubbed, weathered, throated and stolled cills	per ft. cube	4	5	10
12 in. × 6 in. do. do. do. ...	,,	3	1	2
12 in. × 3 in. Plain coping, twice throated	,,	2	7	6
12 in. × 3 in. Weathered and twice throated coping	,,	3	3	3
14 in. × 6 in. do. do. do. ...	,,	2	17	0
4½ in. × 9 in. Plinth rubbed on top and face ...	,,	2	11	0
3 in. sawn two sides Slabs, random sizes ...	per ft. sup.		9	1
Templates and Cover Stones, 3 in., 4 in. and 6 in. thick, edges coped for rendered brickwork ...	per ft. cube	1	11	3
do. do. fair one edge for fair faced brickwork	,,	1	17	0
Hard York—				
12 in. × 2 in. Square Steps, rubbed on top and edge	per ft. run		11	0
14 in. × 3 in. Round-nosed Steps, rubbed on top and front	per ft. cube	2	18	3
12 in. × 6 in. Plain Steps, rubbed top and front	,,	2	11	0
2 in. Rubbed and Jointed Paving, given sizes ...	per ft. sup.		10	3
2 in. Sawn Paving, edges squared, in random sizes	per yd. sup.	3	12	0

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Delivered London area by road in 6 tons or over per 1,000.

	£	s.	d.
Machine-made Pantiles and French pattern Tiles from Lincolnshire district	29	19	0
Hand-made Pantiles Berkshire district	55	18	0
Hand-made Double Roman Bridgwater district ...	64	4	1
Hand-made 10½ × 6½ tiles Berkshire district	15	18	3
Machine-made 10½ × 6½ Staffordshire district	15	2	6
Hand-made Hip and Valley tiles per doz.	1	11	10
Machine-made Hip and Valley tiles do.	1	10	1
Concrete tiles 10½ × 6½	8	10	0
do. Interlocking (49S)	19	16	6

NOTE.—Breakage in transit, purchasers' responsibility.

SLATES

First-quality Slates from Penrhyn or Portmadoc, carriage paid in full truck loads to London Rate station. Per 1,000 actual.

	£	s.	d.
24 × 12	150	19	7
22 × 12	122	14	2
22 × 11	110	16	4
20 × 12	103	19	1
20 × 10	99	11	6
18 × 10	69	2	6
18 × 9	60	11	9
16 × 10	54	8	10
16 × 8	42	12	4

NOTE.—Breakage in transit, purchasers' responsibility.

TIMBER

				£	s.	d.
Softwood						
Joinery quality		Ex Wharf	per standard	£115 to £140		
Carcassing quality		do.	,,	£94 — £98		
1 in. Tongued and Grooved Flooring		do.	,,	£110	0	0
Hardwood						
Mahogany—	African S.E.	do.	per ft. cube	1	10	0
do.	Honduras S.E.	do.	,,	3	5	0
Oak	European S.E.	do.	,,	2	10	0
do.	Japanese S.E.	do.	,,	3	0	0
do.	English Logs sawn ...	do.	,,	2	0	0
Teak	8 in. average S.E. ...	do.	,,	3	17	6
Walnut	African Logs sawn ...	do.	,,	1	2	6

DOORS (in Lots I–II)

Delivered London area.

		£	s.	d.
1½ in. 4 Horizontal Panel. Pattern 4 in. deal				
2 ft. 0 in. × 6 ft. 6 in.	each	1	16	0
2 ft. 3 in. × 6 ft. 6 in.	,,	1	17	6
2 ft. 6 in. × 6 ft. 6 in.	,,	1	18	6
2 ft. 9 in. × 6 ft. 6 in.	,,	2	0	6
2 in. do. but top panel open. Pattern 4 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	9	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	11	6
2 in. 2 Panel top panel open. Pattern 2 × G in deal				
2 ft. 6 in. × 6 ft. 6 in.	,,	2	3	0
2 ft. 9 in. × 6 ft. 6 in.	,,	2	5	0

SUNDRIES

Delivered London area.

		£	s.	d.
1 in. Wood Wool Slabs 6 ft. 0 in. × 2 ft. 0 in. in quantities of 1 ton (89 yds. to 1 ton)	per yd.		6	2
1½ in. do. (67 yds. to 1 ton)	,,		8	0
2 in. do. (52 yds. to 1 ton)	,,		9	9½
2½ in. do. (45 yds. to 1 ton)	,,		11	3
3 in. do. (39 yds. to 1 ton)	,,		12	7½
Quantities under 1 ton add 1d. per ½ in. of thickness.				
½ in. imported insulation Board, quantities over 5,000 sq. ft.	per 100 sq. ft.	2	2	6
¼ in. Hardboard do.	,,	1	17	6
5/16 in. do. do.	,,	2	4	6
7/16 in. Asbestos Flat Building Sheets	per yd. sup.		4	3½
¼ in. do. do. do.	,,		6	0
Roofing Felt 1-ply	,,		1	9
do. 2-ply	,,		2	2½
Best Scotch Glue in slabs	per ½ cwt.	5	8	0
do. pearl	,,	5	8	0
Croid Glue	28 lb.	2	6	0
Cut Nails 3 in. (1-ton lots)	per ton	78	10	0
do. 4 in. and up (1-ton lots)	,,	75	0	0
Wire Nails 3 in. (4-cwt. lots)	per cwt.	3	13	5
do. 4 in. and up (4-cwt. lots)	,,	3	12	10

METALS

STEEL JOIST, ETC.

		£	s.	d.
Basis Joists— 6 in. × 5 in., 8 in. × 5 in., 8 in. × 6 in., 10 in. × 6 in., 12 in. × 6 in., plain cut to lengths delivered London area	per ton	47	15	0
Extra for sizes				
3 in. × 1½ in. 4 in. × 1⅞ in.	,,	3	10	0
3 in. × 3 in.	,,	2	10	0
4 in. × 3 in.	,,	2	5	0
10 in. × 4½ in.	,,	1	10	0
5 in. × 2½ in. 5 in. × 3 in.	,,	1	15	0
4⅞ in. × 1⅞ in.	,,	3	5	0
5 in. × 4½ in. 7 in. × 3½ in. 13 in. × 5 in. ...	,,		15	0
6 in. × 3 in. 24 in. × 7½ in.	,,	2	0	0
6 in. × 4½ in. 7 in. × 4 in. 8 in. × 4 in. 9 in. × 4 in. 10 in. × 5 in.	,,	1	5	0
12 in. × 5 in. 22 in. × 7 in.	,,	1	0	0
9 in. × 7 in. 10 in. × 8 in. 12 in. × 8 in. 14 in. × 5½ in. 14 in. × 6 in. 14 in. × 8 in. 15 in. × 5 in. 15 in. × 6 in. 16 in. × 6 in. 16 in. × 8 in. 18 in. × 6 in. 18 in. × 7 in. 18 in. × 8 in. 20 in. × 6½ in. 20 in. × 7½ in.	,,		10	0
Steel angles average price	,,	48	15	0
Steel tees average price	,,	49	15	0
Fabricated work delivered London— R.S. Joists cut and fitted	,,	64	15	0
Compound girders	,,	69	5	0
Stanchions	,,	74	15	0
Compound stanchions	,,	79	5	0
In Roof Work—Trusses and Purlins	,,	89	0	0
Average prices not for awkward work.				
Angle cleats and ⅝ in., ¾ in. and ⅞ in. bolts average price London area	per cwt.	5	10	0

FERRO-CONCRETE BARS

		£	s.	d.
Mild Steel Ferro-Concrete bars British manufacture to BSS785 ex London Stock 1 in. diam., and upwards	per ton	49	10	0
¼ in. diam.	per ton extra	8	12	6
5/16 in. do.	,,	6	12	6
⅜ in. do.	,,	4	12	6
½ in. do.	,,	3	2	6
⅝ in. do.	,,	1	10	0
¾ in. and ⅞ in. diam.	,,		15	0

MILD STEEL TUBE

Tubes to BSS 1387—1957 and Fittings. *Revised* list prices and following discounts :

Galvanised Tube—	Under 1 ton	Over 1 ton	W.I. Fittings	Malleable Fittings
Light	−39½%	−41%	Light −26½%	Malleable List
Medium	−35½%	−37%	Heavy −22½%	−23% +40%
Heavy	−27½%	−29½%		
Black—				
Light	−50%	−51½%	Light −32½%	Malleable List
Medium	−46%	−47½%	Heavy −28½%	−23%
Heavy	−38½%	−40%		

C.I. HALF-ROUND GUTTER

Delivered London per yd. in 6 ft. lengths.

	Gutters	Nozzles	Stop Ends
3 in.	4/0½	3/7	1/-
3½ in.	4/4½	3/1	1/-
4 in.	5/8	4/5	1/7
4½ in.	6/3	4/11	1/1
5 in.	6/11½	5/4	2/2

METALS—*continued*

C.I.O.G. GUTTERS

Per yd. in 6-ft. lengths :	Gutters	Nozzle	Stop Ends
3 in.	5/2½	4/8	1/3
3½ in.	5/10	4/8	1/7
4 in.	6/5	4/11	1/10
4½ in.	6/11½	5/8	2/2
5 in.	7/7½	6/5	2/6

C.I. RAIN-WATER PIPES

	Pipe	Bends	Branches
2 in.	8/7½	4/5	6/4
2½ in.	8/7½	4/11	8/6
3 in.	9/8½	6/2	9/2
3½ in.	11/0½	7/3	11/–
4 in.	12/9	8/9	13/1

L.C.C. COATED SOIL PIPE

2 in.	9/8½	7/7	9/2
2½ in.	10/4	8/5	11/5
3 in.	11/7	9/2	13/7
3½ in.	12/11½	11/5	15/10
4 in.	14/9	12/9	18/8

Above prices for gutters, rain-water and soil pipes for under 5-cwt. lots. only. Lots over 5 cwt. see List No. 3300, dated February 1, 1955, plus 25% and tonnage allowance. 4-ton lots 5%, 2-ton lots 2½%.

L.C.C. COATED DRAIN PIPES

In 9-fts.:	cwt.	qt.	lb.	Per yd.	Bends	Branches
4 in.	1	1	17	35/3	23/9	42/–
6 in.	2	0	1	51/7	63/9	101/–

ASBESTOS RAIN-WATER PIPES AND FITTINGS

All less 17½% discount.		2 in.	2½ in.	3 in.	4 in.
Pipes, 6-ft. lengths ...	per yd.	4/7	4/10½	5/11	7/10
Shoes ...	each	3/–	3/3	3/10	5/2
Single Branches ...	"	4/8	5/6	6/7	9/2
Bends, square or obtuse ...	"	3/3	3/7	4/8	6/7
Swan Necks, 4½ in. proj....	"	3/7	4/8	5/2	7/3
do. 6 in do....	"	3/10	5/2	5/10	7/10

ASBESTOS O.G. GUTTERS AND FITTINGS

		4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	per yd.	4/4	4/9½	5/9	6/10½
Drop ends	each	3/6	4/–	4/9	5/5
Stop ends	"	1/1	1/2	1/3	1/5
Angles ...	"	3/7	4/1	5/–	5/10
Nozzles	"	3/6	4/–	4/9	5/–
Union Clips ...	"	1/9	2/1	2/6	2/11

ASBESTOS HALF-ROUND GUTTERS AND FITTINGS

	per	3 in.	4 in.	4½ in.	5 in.	6 in.
Gutters, 6-ft. lengths	yd.	3/0½	3/7½	3/8½	4/4½	6/1
Drop ends ...	each	2/6	3/–	3/3	3/7	5/2
Stop ends ...	"	1/–	1/1	1/2	1/3	1/5
Angles ...	"	2/10	3/3	3/7	3/10	5/2
Nozzles ...	"	2/6	3/–	3/3	3/7	5/2
Union Clips ...	"	1/3	1/4	1/5	1/7	2/5

	Per ton basis in London £ s. d.
Iron—Staffordshire Crown Merchant Quality	52 17 6
Mild Steel Bars	47 8 6
Mild Steel Hoops	49 0 0

	Ex Merchant's Stock per ton Two-ton lots £ s. d.
Soft Sheets C.R. and C.A.—	
20 gauge	62 7 6
24 gauge	64 17 6
26 gauge	67 17 6
Galvanised Corrguated Sheets, 6-ft. to 9-ft. —	
20 gauge	70 18 0
24 gauge	74 8 0
26 gauge	79 13 0
Galvanised Flat Sheets C.R. and C.A. :	
20 gauge	72 8 0
24 gauge	75 18 0
26 gauge	81 3 0

ALUMINIUM AND ALUMINIUM ALLOYS

(Base Prices)		£ s. d.
Sheet BS 1740 S1C 18 SWG (36 in. wide)... ...	per lb.	3 0
Sheet BS 1470 NS3 Utility 18 SWG (36 in. wide)	"	2 11
Coiled strip BS 1470 S1C 18 SWG (24 in. wide)	"	2 11
Coiled strip BS 1470 NS3 Utility 18 SWG (24 in. wide)	"	2 10½
Coiled strip for flashing, high purity, 22 SWG (12 in wide)	"	3 1½
Corrugated sheet BS 1470 NS3 Circular Profile 8 ft. × 32 in. × 20 SWG	per sheet	1 13 6
Corrugated sheet BS 1470 NS3 Industrial Profile 8 ft. × 31¾ in. × 20 SWG	"	1 19 3
Corrugated sheet BS 1470 NS3 Mansard Profile 8 ft. × 31¾ in. × 20 SWG	"	1 12 7
Extruded section BS 1476 E1C simple moulding	per lb.	2 10
Extruded section BS 1476 E1C 1 in. diam. round	"	2 7½
Extruded section BS 1476 HE10WP simple angle	"	3 1½
Extruded section BS 1476 HE10WP 1 in. diam. round	"	3 0½
Tubing BS 1471 T1C 1½ in. O/D × 20 SWG ...	"	4 6½
Tubing BS 1471 HT19WP 1½ in. O/D × 20 SWG	"	5 0½

PLUMBERS' BRASS WORK, etc.

Delivered in London area.

All per dozen	M.O.H. ½ in.	¾ in.	1 in.	1¼ in.	1½ in.	2 in.
Screwdown bib cocks Crutch head for iron...	87/–	128/–	—	—	—	—
Toilet bib cocks for iron ...	109/–	158/5	—	—	—	—
Screwdown stop cocks for iron	66/–	95/9	188/–	363/–	522/6	917/6
do. with two unions for lead	89/–	132/–	234/4	472/–	623/6	1,389/6
Double nut boiler screws ...	18/8	26/5	47/6	48/6	67/–	93/6
Heavy Croydon ball valves...	77/–	193/6	312/5	568/8	734/10	—
Plumbers' union brass lead to iron	19/6	23/6	38/6	52/10	70/6	165/–
	1¼ in.	1½ in.	2 in.	3 in.	3½ in.	4in.
Caps and Screws	33/–	40/8	59/6	92/5	118/10	155/3
Brass Sleeves	—	31/11	31/11	56/2	74/10	91/5
	1¼ × 6 lb.	1½ × 6 lb.	2 × 7 lb.	3 × 7 lb.		
Lead P. trap with brass cleaning screws	68/6	85/6	137/–	233/9		
Lead S. trap do. do.	82/9	102/9	168/3	302/3		

Solder :			s. d.
Plumbers' ...	1 cwt. lots	320/–	14 lb. lots per lb. 3 7
Tinmen's	" "	404/–	" " " 4 5
Blow pipe ...	" "	407/–	" " " 4 6

COPPER TUBES AND SHEETS

Copper tubes BSS 659/1944 on the basic price of 30½d. per lb plus gauge and manufacturing extras as follows. Minimum quantities, 10 cwt.

	Extra d.		d.		d.
⅛ in. × 19 gauge	15½	Total per lb.	46	Approx. per ft.	12½
¼ in. × 19 "	13¾	" "	44½	" "	17½
1 in. × 18 "	12¼	" "	42¾	" "	26½
1¼ in. × 18 "	11⅝	" "	42⅛	" "	32
1½ in. × 18 "	11⅝	" "	42⅛	" "	38½
2 in. × 17 "	13¼	" "	43½	" "	61½

Small Quantity extras :—	
10 cwts. to 5 cwts.	plus ½d. per lb.
5 cwts. to 2 cwts.	" 1d. "
2 cwts. to 1 cwt.	" 2d. "

	£ s. d.
Rolled Copper sheets up to 48 in. wide, basic price plus gauge and manufacturing extras	298 0 0

ZINC

		£ s. d.
Sheet Zinc, 10 gauge (25 SWG), 5 cwt. lots upwards	per cwt.	7 15 3
" " 12 gauge (23 SWG), " " "	"	7 14 9
" " 14 gauge (21 SWG), " " "	"	7 13 6

BRASS TUBES

Brass tubes, basic price, plus gauge and manufacturing extras	per lb.	2 1½

LEAD SHEET AND PIPES

Basis selling price to one address in London or Home Counties :

		£ s. d.
Lead Sheet, English, 3½ lb. substance and upwards	per ton	115 15 0
" Water Pipe, in coils	"	118 0 0
Lead Soil Pipe, 10 ft. or over 2 in. to 4 in. in dia.	"	119 10 0
" " " over 4 in. dia....	"	121 10 0
" Gas or Untinned Compo pipe...	"	119 10 0

5 cwt. lots and over less 6d. per cwt. off basic prices.

Extras over Basis for quantities under 5 cwt.:		
3 cwt. and under 5 cwt.	per cwt.	4 0
1 cwt. do. 3 cwt.	"	6 0

Smaller quantities than 1 cwt. priced specially.

Supplying sheet lead and lead pipe to less than basis weights and cutting to sizes less than basis charged extra according to current trade schedule.

Allowance for Old Lead, collected, £66 0s. 0d. per ton weighed at buyer's works.

PLASTER, etc.

		£ s. d.
Coarse Pink in 1-ton loads and over delivered on site	per ton	8 4 6
do. White do. do. do.	"	8 14 0
Sirapite Coarse BSS 1191 Class C do.	"	8 15 9
do. Fine do. do. do.	"	9 3 3
do. Browning BSS 1191 Class B do.	"	8 15 9
do. Board Finish do. do.	"	8 15 9
Blue Lias Lime, in 6-ton loads	"	6 14 6
Hydrated Lime (Grey), in 6-ton loads	"	5 10 0
do. (White) do.	"	6 0 0
Lump Lime (Grey) do.	"	5 7 0
do. (White) do.	"	5 14 6
White Keen's or Parian Cement, in 1-ton loads...	"	11 19 3
Pink Keen's or Parian Cement, in 1-ton loads ...	"	11 14 0
Granite Chips, in 6-ton loads	"	2 5 3
Hair	per cwt.	4 17 6
Gypsum Plaster Lath or Base Board, ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	per yd.	2 3½
1,200 yds.	"	2 2½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	2 9
1,200 yds.	"	2 9
Gypsum Plaster Wall Boards, 3 and 4 ft. wide 6 to 12 ft., ⅜ in. thick, 600 yds, and over in one delivery. Delivered site	"	2 6½
1,200 yds.	"	2 5½
do. Insulating do. ⅜ in. thick, 600 yds. and over in one delivery. Delivered site	"	3 0
1,200 yds.	"	3 0

The £.s.d. of OSAL★
—*Waterproofing Concrete*

It's not the cost per gallon but the cost per yard that counts

On this basis Tricosal, which waterproofs a cubic yard of 1 : 2 : 4 concrete for only 7/-, is the most economical as well as the most efficient additive. It waterproofs integrally and, being a liquid, mixes with the gauging fluid and is evenly distributed throughout the mix.

INTEGRAL CEMENT
TRICOSAL
HARDENER·PROOFER

Tricosal is now available in non-returnable containers

For 30 years or more Tricosal has been specified by leading Architects not only for waterproofing but for hardening cement and concrete and increasing their resistance to oils and acids. Send for Information Leaflet No. 1.

★ *OSAL is the generic name for the products of A. A. Byrd & Co. Ltd.—" Florosal " for Surface Hardening and protection of Concrete, Stone and Cement—" Neocosal " for Surface Waterproofing of Brick, Concrete and Stone, and " Tricosal ". Literature on each individual product is available from*

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MODEL MB.16

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- No motor, no vibration
- Cooling unit guaranteed 5 years

Model MB.16 built-in refrigerator is an entirely new development from Electrolux. Designed with builders and estate development in mind, it combines a new lightness in weight, "easy-to-build-in" dimensions and a generous storage capacity at a new low price, yet retains the quality and reliability which have made Electrolux world famous.

This refrigerator can be built into kitchen fitments at waist height, or at floor level beneath a draining board or work-top unit of British Standard Specification. Being a fixture, the MB.16 can be included in the mortgage. It will add distinction to any kitchen, and provide the most up-to-date and convenient method of safe food storage.

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FOR PROVEN RELIABILITY

Post to: Electrolux Ltd., Contracts Dept., 153/5 Regent St., London, W1

Please send me full details of model MB.16 Built-in Refrigerator

NAME.....

B(5)

ADDRESS.....

.....

PAINTS AND DISTEMPER

Delivered London area.		£	s.	d.
Ceiling Distemper	per cwt.	1	7	6
Washable Distemper	,,	5	15	0
Gloss Paint	per gal.	2	16	0
Super Snowcem cement paint (in 1 cwt. drums) ...	per cwt.	4	0	0
LEAD PRODUCTS AND OILS				
Ground White Lead, in 1 cwt. kegs	per cwt.	8	7	6
Genuine White Lead Paint, 1-19 gal. lots in 1 gal. tins	per gal.	3	6	6
Genuine Red Lead, Dry, 1 cwt. keg (10 ton lots)	per cwt.	5	12	6
do. do. do. (1 cwt. lots)	,,	6	19	0
Genuine Linseed Oil Putty, 1 cwt. keg	,,	2	12	6
Size XD quality 28 lb.	per tin		9	0
Raw Linseed Oil (5 gal.) drums extra	per gal.		19	2
Boiled Linseed Oil (5 gal.) do.	,,		20	0
SUNDRIES				
Turpentine substitute (5 gal.) drums extra... ...	,,		5	4½
do. do. (40 gal.) do.	,,		4	8½
Solignum, Brown (5 gal. cans) Exterior	,,		8	8
Creosote (40 gal. barrels)	,,		2	3
Paste Powder (1 lb. packets)	per lb.		2	4
White Lining Paper	per piece		1	2

VARNISHES, etc.

Delivered London area.		£	s.	d.
Oak Varnish, Outside or Inside	per gal.	2	0	0
Oal Pale Copal do. do.	,,	2	0	0
Hard Drying Oak for Inside	,,	2	5	0
Crystal Paper Varnish do.	,,	2	8	0
Eggshell Flat Varnish do.	,,	2	2	0
Finest Carriage Varnish	,,	2	7	0
Front Door Varnish	,,	2	4	0
Japan Gold Size	,,	1	12	0
Black Japan	,,	1	16	0
Brunswick Black	,,	1	12	0
Berlin Black	,,	1	10	0
Terebene	,,	1	12	0
Knotting (1 gal. bottles free)	,,	1	15	0
French and Brush Polish (do.)...	,,	1	15	0

GLASS

Delivered London area.		s.	d.
18 oz. Sheet Glass Ordinary Glazing Quality—			
Cut Sizes	per ft. sup.		9½
24 oz. do. do. do. do.	,,		11½
26 oz. do. do. do. do.	,,	1	2½
32 oz. do. do. do. do.	,,	1	6½
¼ in. Rolled Plate	,,	1	2½
7/16 in. Rolled and Rough Cast	,,	1	5
½ in. do. do.	,,	1	5½
¼ in. Figured Rolled and Cathedral, Standard patterns—			
White Group 1	per ft. sup.	1	2½
do. Group 2	,,	1	8½
do. Standard Tints	,,	2	1½
do. Special Tints	,,	7	3
¼ in. Pinstripe, Hammerstripe, Reeded, Reedlyte and Luminating Group 3	,,	1	7½
¼ in. Wired Cast	,,	1	9½
¼ in. Georgian Wired Cast	,,	1	9½
Hollow Glass Blocks—			
P.B.2 Cross reeded 5¾ × 5¾ × 3⅞ in. ...	each	3	6
P.B.3 Broad reeded 7¾ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.32 Cross reeded 7¾ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.4 Prismatic 7¾ × 7¾ × 3⅞ in. ...	,,	6	0
P.B.5 Flemish 7¾ × 7¾ × 3⅞ in. ...	,,	5	4
P.B.6 Boomerang 7¾ × 7¾ × 3⅞ in. ...	,,	6	0
Half Size Blocks—			
P.B.32 Cross reeded 7¾ × 3¾ × 3⅞ in. ...	,,	4	6
Radiused Corner Blocks to match up with—			
P.B.2 Cross reeded	,,	7	6
P.B.3 Broad reeded...	,,	9	0
P.B.32 Cross reeded	,,	9	0
P.B.2, P.B.3, P.B.32 are also supplied in Light Diffusing Blocks at same price.			
¼ in. Polished Plate Glass, G.G. quality—			
In plates not exceeding 2 ft. sup.	per ft. sup.	4	7
,, ,, ,, 5 ft. sup.	,,	5	7
,, ,, ,, 45 ft. sup.	,,	6	9
,, ,, ,, 100 ft. sup.	,,	7	4
¼ in. Polished Plate, extra sizes, *i.e.*, plates exceeding 100 ft. sup. or 160 in. one way or 96 in. both ways. G.G. quality—Not exceeding 135 ft. sup. or 240 in. one way or 130 in. both ways ...	,,	10	9
Not exceeding 180 ft. sup. or do.	,,	14	3

Plates exceeding 180 ft. sup. prices on application.
Substances other than ¼ in. Polished Plate at Special Prices.
Quantity Tariff—Sheet and Sundry Glass.

The following prices apply to minimum quantities of one size and one pattern delivered by the manufacturer to one site at one time.

Description of Glass	Minimum quantity	per ft. sup. s.	d.
18 oz. sheet O.Q.	3,000		6½
24 oz. ,, ,, ...	2,000		8½
26 oz. ,, ,, ...	2,000		11
32 oz. ,, ,, ...	2,000	1	2½
¼ in. Rolled Plate	1,000		10½
¼ in. Figured Rolled and Cathedral Standard Patterns, White Group 1	1,000		10½
do. Group 2	1,000	1	2
¼ in. Pinstripe, Hammerstripe, Reeded, Luminating and Spotlyte Group 3	1,000	1	2
7/16 in. Rolled Plate or Rough Cast	2,000	1	1
½ in. do. do.	2,000	1	1½
¼ in. Wired Cast, Hexagonal	2,000	1	4½
¼ in. Georgian Wired Cast	2,000	1	4½

THE BUILDER RATES OF WAGES

AS FROM APRIL 18, 1960. **(Every endeavour is made to ensure accuracy but we cannot be responsible for errors.)**

KEY TO SCHEDULE OF GRADE RATES.

Grade Classification	A	A1
Craftsmen	4/11½	4/11
Labourers	4/4	4/3½

Town	*Grade*
Aberavon	A
Aberdare	A
Abergavenny	A
Abingdon	A1
Accrington	A
Addlestone	A
Afan Valley	A
Aldeburgh	A1
Aldershot District	A1
Alfreton UD	A
Alnwick UD	A
Altrincham	A
Amble	A
Ambleside	A
Amersham	A
Ammanford	A
Andover	A1
Anglesey, Isle of	A
Ardingly	A1
Arundel	A1
Ascot	A1
Ashbourne RD	A1
Ashbourne UD	A1
Ashby-de-la-Zouch UD	A
Ashby Woulds UD	A
Ashford (Kent)	A1
Ashford (Middlesex)	A
Ashington UD	A
Ashtead	A
Ashton-under-Lyne	A
Aspatria and Brayton	A
Atherstone RD	A
Attleborough	A1
Axminster	A1
Aylesbury	A1
Aylsham	A1
Bagshot	A1
Bakewell UD	A1
Banbury	A1
Bangor	A
Barnard Castle UD	A
Barnoldswick UD	A
Barnsley CB	A
Barnstaple	A1
Barrow-in-Furness	A
Barrow-upon-Soar RD (part Thrussington)	A1
Barry	A
Basford RD (ex. Willough-by-on-the-Wolds A1)	A
Basingstoke	A1
Bath	A
Batley MB	A
Baxterley	A1
Beaconsfield District	A
Bearl	A
Beccles	A1
Bedale RD	A
Bedford	A
Bedlington	A
Bedlingtonshire UD	A
Bedwas	A
Beeston & Stapleford UD	A
Belper UD	A
Belton	A
Berkhamsted	A
Berrington	A
Berwick Borough	A
Beverley MB	A
Bewdley MB	A
Bexhill-on-Sea	A1
Bideford	A1
Biggleswade	A1
Billericay	A
Billing	A
Billingham UD	A
Bilsthorpe	A
Bilston MB	A
Birchington	A1
Birkenhead	*
Birmingham CB	†A
Bishop Auckland UD	A
Bishop's Stortford	A
Bishops Castle MB	A1
Bispham	A
Blackburn	A
Blackpool	A
Blackwell RD	A
Blandford	A1
Blaydon UD	A
Blidworth	A
Blyth B.	A
Bodmin	A1
Bognor Regis	A1
Boldon UD	A
Bolsover UD	A
Bolton	A
Boston MB	A
Bourne End	A1
Bournemouth District	A
Brackley MB	A1
Bracknell	A1
Bradford CB	A
Bradford-on-Avon	A1
Braintree	A1
Brandon & Byshottles UD	A
Brecon, Borough of	A1
Breconshire, County of	‡A1
Brent Knoll	A1
Brentwood	A
Bridgend	A
Bridlington MB	A
Bridlington RD	A
Bridgnorth MB	A
Bridgnorth RD	A1
Bridgwater	A1
Brierfield	A
Brighouse MB	A
Brighton & Hove	A
Bristol District	A
Broadstairs	A1
Bromsgrove UD	A
Broughton, Flint	A
Buckfastleigh	A1
Buckingham	A1
Buckley	A
Bungay	A1
Burnham-on-Crouch	A1
Burnham-on-Sea	A1
Burnley	A
Burton-on-Trent CB	A
Bury	A
Bury St. Edmunds	A1
Buxton	A
Byfleet	A1
Caernarvon	A
Caernarvonshire, Cnty. of	‡A
Calder Valley	A
Camberley District	A1
Cambridge	A
Cannock UD	A
Canterbury	A1
Cardiff	A
Cardiganshire, Cnty. of	‡A1
Carlisle	A

CURRENT RATES OF WAGES—Continued

Town	Grade
Carlton UD	A
Carmarthen—Borough of	A
Carmarthenshire, Cnty. of	A
Carnforth	A
Castleford UD	A
Caterham	A
Chapel-en-le-Frith	A
Chard	A1
Charmy Down	A
Chatham District	A
Chatteris	A1
Cheadle (Staffs) RD	A
Chelmsford	A
Cheltenham	A
Chepstow	A
Chertsey	A
Chester	A
Chester-le-Street UD	A
Chesterfield MB	A
Chesterfield RD	A
Chichester	A1
Chipping Norton	A1
Chipping Sodbury	A1
Chippenham (inc. Chippenham Within and Hardenhuish)	A1
Chorley	A
Cirencester	A1
Clacton	A1
Clay Cross UD	A
Cleethorpes MB	A
Clevedon	A1
Cleveleys	A
Clitheroe	A
Coalville UD	A
Cobham (Surrey)	A
Colchester	A
Colne	A
Colwyn Bay	A
Congleton	A
Consett UD	A
Conway	A
Corby UD	A
Cornwall, County of	‡A1
Corsham District	A
Coventry CB	A
Cranbrook	A1
Cranleigh	A1
Cranwell Aerodrome Site	A
Crawley	A
Crewe	A
Crewkerne	A1
Cromer	A1
Crook and Willington UD	A
Crowborough	A1
Cuckfield	A1
Cwmbran	A
Dalton-in-Furness	A
Darlington CB	A
Dartmouth	A1
Darwen	A
Daventry MB	A
Deal	A1
Denbigh Town	A
Derby CB	A
Devizes	A1
Devon, County of	‡A1
Dewsbury CB	A
Didcot	A1
Diss	A1
Doncaster CB	A
Dorchester	A1
Dorking	A
Dorset, County of	A1
Dover	A1
Dovercourt	A
Driffield UD	A1
Drigg & Carleton	A
Droitwich MB	A
Dudley CB	A
Dunstable	A
Durham B	A
Eastbourne	A
E. Glam. & Mon. Val.	A
East Grinstead District	A1
East Kesteven RD	A1
East Retford MB	A
Eastwood (Notts) UD	A
Ebbw Vale & District	A
Edenbridge	A1
Ely	A1
Epping	A
Evesham MB	A1
Exeter	A
Exmouth	A1
Fakenham	A1
Falmouth	A1
Fareham	A
Faversham	A1
Felixstowe	A1
Filey UD	A
Fleetwood	A
Flint MB	A
Folkestone	A1
Frinton	A1
Frome	A1
Gainsborough UD	A
Gateshead CB	A
Gillingham (Dorset)	A1
Gillingham (Kent)	A
Glastonbury & Street	A1
Glossop	A
Gloucester	A
Gloucestershire, Cnty. of	‡A1
Godalming	A1
Goole, MB	A
Goole RD	A
Gosport	A
Grantham MB	A
Gravesend	A
Great Yarmouth	A
Grimsby CB	A
Grimsby RD (part)	A1
Guildford District	A1
Halesowen MB	A
Halifax CB	A
Halstead	A1
Haresfield	A1
Harlow	A
Harpenden	A
Harrogate MB	A
Hartlepool B	A
Harwell	A1
Harwich	A
Haslemere	A1
Hastings	A1
Hatfield (Herts)	A
Havant	A
Haywards Heath	A1
Heanor UD	A
Hemel Hempstead	A
Henley-on-Thames	A1
Hereford	A1
Herefordshire, Cnty. of	‡A1
Herne Bay	A1
Hertford	A
Hexham RD	A
Hexham UD	A
Heysham	A
Heywood	A
Higham Ferrers MB	A
High Wycombe	A
Hinckley UD	A
Hitchin	A
Hoddesdon	A
Holywell	A
Horley	A1
Horncastle UD	A1
Horsham	A1
Horwich	A
Huddersfield CB	A
Hull	A
Hunstanton	A1
Huntington (Staffs)	A
Ilfracombe	A1
Ilkeston MB	A
Ilkley UD	A
Ipswich	A
Isle of Sheppey	A1
Isle of Thanet	A1
Isle of Wight	A1
Jarrow B.	A
Keighley MB	A
Kendal	A
Kenilworth UD	A
Kettering MB	A
Keynsham	A
Kidderminster MB	A
Kingskerswell	A1
King's Lynn	A1
Kingsteignton	A1
Kirkham	A
Knaresborough UD	A
Knutsford	A
Lancaster	A
Leamington MB	A
Leatherhead	A
Leeds CB	A
Leek UD	A
Leicester CB	A
Leighton Buzzard	A1
Leiston	A1
Leominster	A1
Letchworth	A
Lewes	A1
Lichfield MB	A
Lincoln CB	A
Liskeard	A1
Littlehampton	A1
Liverpool	*
Llandudno	A
Llanelly (inc. Llanelly RD)	A
Llanfairechan	A
Llangollen	A
London	*
Long Eaton	A
Looe	A1
Loughborough MB	A
Louth MB	A1
Lowestoft	A
Loxton	A1
Ludlow MB	A1
Ludlow RD	A1
Luton	A
Lyme Regis	A1
Lyneham /Devon)	A1
Lytham	A
Macclesfield	A
Maidenhead	A
Maidstone	A
Maldon (Essex)	A1
Maltby UD	A
Malton UD	A1
Malvern UD	A
Manchester	A
Manningtree	A1
Mansfield MB	A
March	A1
Margate	A1
Market Harborough RD	A1
Market Harborough UD	A
Market Rasen UD	A1
Martock	A1
Maryport	A
Matlock UD	A
Melksham	A1
Melton Mowbray UD	A
Merionethshire	A
Merthyr	A
Mexborough UD	A
Middlesbrough CB	A
Middleton	A
Middlewich	A
Mildenhall	A1
Milford Haven UD	A1
Minehead	A1
Monmouth—Borough of	A
Monmouthshire	A
Morecambe	A
Moreton Valence	A1
Morley	A
Morpeth B	A
Morpeth RD	A
Mundesley	A1
Nantwich	A
Neath & Valley	A
Nelson	A
Newark MB	A
Newbury	A1
Newcastle-upon-Tyne CB	A
Newcastle-under-Lyme	A
New Forest District	A1
Newmarket	A1
Newport, Mon.	A
Newport Pagnell	A1
Newquay	A1
Newton Abbott	A1
Normanton UD	A
Northallerton District	A
Northallerton UD	A
Northampton CB	A
North Shields	A
North Walsham	A1
Northwich	A
Norton Radstock	A1
Norwich	A
Nottingham CB	A
Nuneaton MB	A
Oakham RD	A1
Oakham UD	A1
Okehampton	A1
Oldham	A
Ongar	A
Ormskirk	A
Ossett & Horbury	A
Oswestry	A
Oundle UD	A1
Oxford	A
Oxted	A1
Padstow	A1
Paignton	A1
Par	A1
Pembrokeshire	A
Penmaenmawr	A
Penrith UD	A
Penzance	A1
Peterborough, Soke of (Eastern Regional portion)	A1
Petersfield	A1
Pickering	A
Plymouth	A
Pontefract MB	A
Pontypool & District	A
Pontypridd District	A
Porthcawl	A
Portishead	A
Portland Bill	A1
Portsmouth	A
Port Talbot	A
Preston	A
Princetown	A1
Pudsey MB	A
Pulborough	A1
Radnorshire, County of	‡A1
Ramsgate	A1
Raunds UD	A
Rayleigh	A
Reading	A
Redcar B	A
Redditch UD	A
Redhill & Reigate	A
Rhondda Valley	A
Richmond B (Yorks.)	A
Ripon MB	A
Rochdale	A
Rochester	A
Ross-on-Wye	A1
Rossendale Valley	A
Rotherham CB	A
Royston	A1
Rugby MB	A
Rugeley UD	A1
Rushden UD	A
Saffron Walden	A1
St. Albans	A
St. Austell	A1
St. Helens	A
St. Neots	A1
Salisbury City	A1
Salisbury Plain	A1
Sandy	A1
Sawbridgeworth	A
Saxmundham	A1
Scarborough MB	A
Scunthorpe MB	A
Seaford & Newhaven	A1
Selby UD	A
Sevenoaks	A
Shaftesbury	A1
Sheerness	A1
Sheffield MB	A
Shepton Mallet	A1
Sherborne	A1
Shipley	A
Shoeburyness	A
Shoreham	A
Shrewsbury MB	A
Sirhowy Valleys	A
Sittingbourne	A1
Skegness UD	A1
Skipton UD	A
Sleaford UD	A
Slough, Windsor & Eton District	A
Smethwick CB	†A
Smettisham	A1
Solihull B	A
Somerset, County of	‡A1
Southampton & Eastleigh	A
Southend-on-Sea District	A
Southport	A
South Shields CB	A
Southwold	A1
Spalding UD	A1
Stafford MB	A
Staines	A
Stamford MB	A
Stantonwick	A
Stevenage	A
Stockport	A
Stockton RD	A
Stockton-on-Tees B	A
Stoke-on-Trent CB	A
Stoke Orchard	A1
Stourbridge MB	A
Stouport UD	A
Stowmarket	A1
Stratford-on-Avon MB	A
Stroud (RD Area)	A1
Sunderland CB	A
Sunningdale	A1
Sutton Coldfield MB	A
Swadlincote UD	A
Swaffham	A1
Swanage District	A1
Swansea	A
Swindon District	A
Swinton UD	A
Tamworth MB	A
Taunton	A1
Tavistock	A1
Tenterden	A1
Teignmouth	A1
Tewkesbury	A1
Thames Haven	A
Thetford	A1
Thirsk RD	A
Thorpe Bay	A
Thurrock UDC (including Tilbury, Grays and the area north to Billericay)	A
Todmorden MB	A
Tonbridge	A1
Torquay	A1
Totnes	A1
Tring	A1
Trowbridge	A1
Truro	A1
Tunbridge Wells	A1
Tynemouth CB	A
Ulverston	A
Uppington (Salop)	A1
Uttoxeter RD	A1
Uttoxeter UD	A1
Wakefield CB	A
Wakefield RD	A
Walsall CB	A
Wallsend B	A
Walsden	A
Walton-on-Naze	A1
Ware	A
Warminster	A1
Warrington	A
Warwick MB	A
Wednesbury MB	A
Wellingborough UD	A
Wellington UD	A
Wellington (Somerset)	A1
Wells (Norfolk)	A1
Wells (Somerset)	A1
Welwyn	A
Welwyn Garden City	A
West Bromwich CB	A
Westbury	A1
Westcliff-on-Sea	A
Westerham	A1
West Hartlepool CB	A
Westmorland	A
Weston-super-Mare	A1
Weybridge	A
Weymouth (incl. Portland Bill, excl. Portland Stoneyards)	A1
Whitby UD	A1
Whitby RD	A1
Whitehaven	A
Whitley & Monkseaton UD	A
Whitstable & District	A1
Wickford	A
Widnes	A
Wigan	A
Wigton	A
Wilmslow	A
Wiltshire, County of	‡A1
Wimborne	A1
Wincanton	A1
Winchester	A1
Windermere	A
Wisbech	A1
Witham	A1
Withernsea UD	A
Woking	A1
Wokingham	A1
Wolverhampton CB	A
Wolverton District	A1
Woodbridge	A1
Woodhall Spa UD	A1
Woodstock	A1
Worcester CB	A
Workington	A
Worksop MB	A
Worthing	A1
Wrexham (incl. Cefn)	A
Wroughton	A1
Wylam	A
Wymondham	A1
Yate	A1
Yeovil Borough	A1
York CB	A
Ystalyfera	A

* For Birkenhead, Liverpool and London the rates are :—Craftsmen, 5s. 1d. ; Labourers, 4s. 5½d. In the case of London the rate beyond the 12-mile radius is : Craftsmen, 5s. 0½d. ; Labourers, 4s. 5d. † Plus 4d. per working day. ‡ This is the County rate and applies except where higher grades are stated.

NOTE.—Carpenters and Joiners providing own tools when employed in establishments operating under the Supplementary Rules for Woodworking Factories and Shops receive 2d. per day ; when employed on other building industry work, 4d. per day.

WOMEN'S RATES.—In all districts throughout the country the rate of wages for women engaged in craft processes is 4s. 1d. per hour. Women engaged on work other than craft processes, 3s. 9d. per hour.

For Building Trade Wages in Scotland, see page 938

where weight matters

LYTAG

Lightweight aggregate gives...

Maximum workability

LYTAG gives greater workability for a particular mix than any other lightweight aggregate, because its spherical particles present the minimum surface area to be wetted.

Minimum shrinkage and high early strength

The low water contents of LYTAG concretes lead to reduced drying shrinkages and give high early strengths. Surface finishes obtained on precast concrete units are smooth and pleasing.

High fire resistance with low 'U' values

The combustible content of LYTAG is less than ½%. It will withstand temperatures of up to 1,000°C without damage. At the same time, it provides a 'U' value well below that of ordinary concrete. For example, the 'U' value of a 6″ LYTAG structural concrete element would be less than a half that of the same element in dense concrete.

60% Air—100% efficient

LYTAG is produced from pulverised fuel ash by a carefully controlled sintering process. Spherical in shape, it has a slightly roughened surface so providing an excellent key for the adhesion of cement.

Technical literature covering all aspects of LYTAG will be forwarded on request. Write to:

LYTAG LIMITED MANOR WAY, BOREHAM WOOD, HERTFORDSHIRE. Telephone Elstree 2854 A LAING COMPANY

M

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HER MAJESTY THE QUEEN
The Marley Tile Company Limited
Suppliers of floor tiles

'Bel canto' in bathrooms...

... harmony too, all over the house

MARLEY
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London Showrooms: 251 Tottenham Court Road W1

TECHNICAL REVIEW

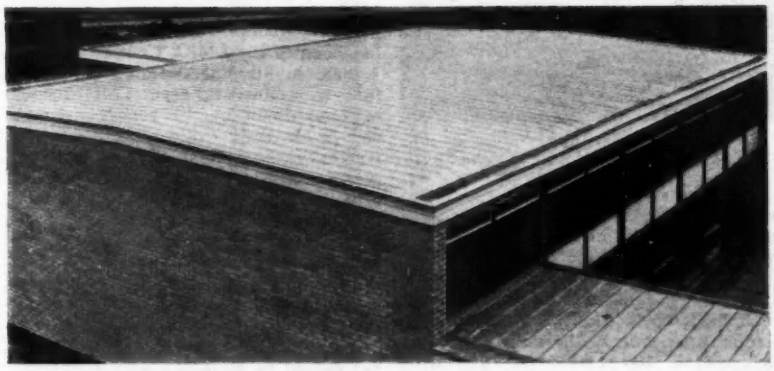
This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 157 of this issue. The form can be used for more than one inquiry.

1. Roofing

A new ALUMINIUM ROOFING SYSTEM, used in the construction of a school in Northamptonshire, is, in essence, an adaption of the traditional method of applying standing seam roofing. The aluminium is transported to the site in 18-in.-wide coils, each weighing about 450 lb. From these coils the metal is formed by a mobile machine into 14-in.-wide trays of the length required for the particular roof being covered. As each tray is laid, it is secured to the roof decking by special clips whilst the edges of adjoining trays are double welted together by special machines to form a water-tight joint.

In this system, which was developed in New Zealand, there are no horizontal lap joints and the surface of the roof is free from visible fixings. The roof need only have a minimum pitch of 2 inches in 10 ft. to apply the system and, as trays of up to 45 ft. in length can be obtained, it seems suited to low pitch gable and lean-to roofs.

Verity and Gardiner, Ltd., Northampton.



The Alstrip aluminium roofing system used at Beanfield Junior School, Corby, Northants, is manufactured from 22SWG, Noral 2S½H aluminium alloy sheet supplied by Northern Aluminium Company Ltd. The school was constructed for Northamptonshire County Education Committee to the design of the County Architect, Mr. A. N. Harris, FRIBA

2. Brushes

A new kind of PAINT BRUSH was recently demonstrated which, it is claimed, will cut painting time by 50 per cent. It can be used over any surface with any normal paint and, because of the manner in which the bristles are set in the stock—the bristles are in ranges, not tufts—the paint-carrying capacity is three times greater than the conventional brush. This, of course, allows a much wider area to be covered with each loading. A further characteristic of the brush is that paint is pushed on to the surface and not back into the stock, so that cleaning becomes less of a chore. Other interesting features are a flange, moulded on the handle, which enables the brush to be clipped to the side of the paint container, and a hollow handle for fitting an extension piece. This could prove useful for painting ceilings and stair walls where the erection of scaffolding or steps presents a problem.

Ucan Centres, Ltd., 62 Hill-st., Richmond, Surrey.

3. Paints

Another PRIMER is being produced to enable rusted surfaces to be painted over. The loose rust is first brushed off, the primer applied to the surface, and, once it is dry, which would normally take about 24 hours, any type of top coat can be used without danger of the rust breaking through the paint film.

The primer is basically an oxidising oil but it will only oxidise to a limited extent. When the oxidisation is complete, the film obtained is still flexible and will never dry to a completely hard finish, but this does not affect the application of the top coat. It is also an oil of extremely high penetration and it will penetrate through all corrosive elements down to the virgin metal. Although it is essentially a primer, it can give limited protection in its own right to rusty factory equipment and, because it never dries out completely, it can be used for painting over nuts and bolts without seizing them up.

The Sylglas Co., 81 Knight's Hill, West Norwood, SE27.

4. Heating

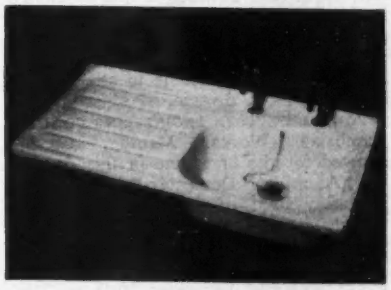
A new range of horizontal PACKAGED BOILERS, having a good performance with either coal or fuel oil, for steam or high-pressure hot water, has been recently introduced. The boilers are available from 3,750 to 37,000 lb./hr., are of welded construction, and each is supplied mounted on a bed-frame which carries also the control panel and feed-pump. The furnace tubes are large enough to change comparatively easily from oil to coal firing and a further point of interest is that the boiler design will allow a man to get inside for inspection purposes, thus providing great ease of maintenance.

The oil-fired version of the boiler is fully automatic in operation, the pressure being maintained constant within narrow limits over the full operating range. The fuel and air supplies are linked and the standard burner is of the rotary cup type. Should the load on the boiler drop below a predetermined minimum then the burner will switch on, or off, as required. The water level in the boiler is automatically kept within narrow limits and two cut-outs are provided which cause the burner to shut down in the event of the water level becoming excessively low. Ignition is by high energy spark, or spark and gas, according to the burner fitted.

Cochran & Co. (Annan) Ltd., Annan, Dumfriesshire.

5. Sink Units

After considerable research, a new GLASS FIBRE SINK has been produced, made from high quality polyester resins reinforced by glass fibre. The resulting product is said to be strong and extremely light in weight and will not warp, chip or scratch. It is easily cleaned,



proof from stains and detergents, and the colour, available in five shades, goes right through.

Sefton Plastic Products, Ltd., Dale-st., Liverpool.

Technical Publication

The PITCH FIBRE PIPE ASSOCIATION are now publishing a manual with which it is intended to provide the industry with up-to-date information on their products. It is divided into six sections: properties and advantages, costs, laying, fittings, manufacture and case histories; and if it is, at the moment, heavily weighted with information on drains and sewers, that is because pitch fibre is considered almost perfect for this type of application. It is thought, however, that one important future use will be for electrical cable conduit and there are hopes of developing a substantial export market. Those readers who are interested should write to the Secretary of the Association, 27 Chancery-lane, London, WC2.

The Mechanical Handling Exhibition

Some Interesting New Developments at Olympia

BY G. H. WAGSTAFF

THE TENDENCY to look upon the biennial Building Exhibition as a show for 'Our Industry,' must not be allowed to blind our eyes to developments in the other spheres of industry. Machines these days are sometimes classified in the category of 'specialist,' but there are quite a number equally useful in several industries and many applications.

We must not overlook the fact that construction in Britain employs directly 1½m. persons, more than any other single industry. Allowing for the winning of raw materials, transportation, processing and assembly involved in providing buildings, plus the allied professions, some 3m. people, or more than one-eighth of the employed population owe their livelihood directly or indirectly to building work.

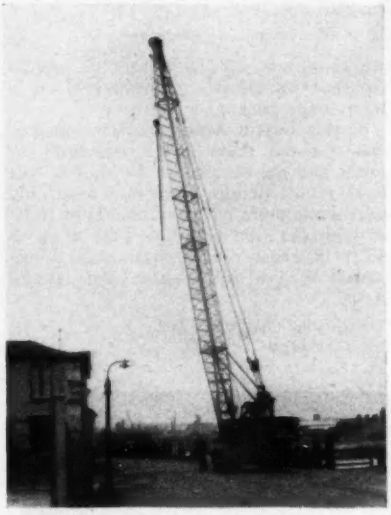
Abroad British contractors continue to make an increasing contribution to the nation's earnings. Overseas contracts involving building of bridges, harbours, dams, offices, roads, and so on, serve to emphasise the need to meet the competition of foreign constructors. New ways and means of increasing productivity are becoming daily more essential.

Of the 300 stands at Earls Court for the Mechanical Handling Exhibition, which closes today (May 13), many are showing plant and equipment applicable only to factory production and assembly. Building work entails more 'tailor-made' activity, but a visit to the exhibition served to show that the range of plant and machinery applicable to site work is becoming more diverse.

POWELL DUFFRYN ENGINEERING CO. LTD., Cambrian Works, Maindy, Cardiff, showed for the first time in this country the American Dempster-Dumster integrated system of standard commercial vehicles and specially designed containers for handling in bulk all kinds of process materials. Two types were exhibited. The Dempster-Dumster, Type L.F.W. will lift, transport, set down or dump loads from 6,000 lb. to 38,000 lb. in containers ranging from one to fifteen cubic yards. Pick-up is by chain slings attached to the container by hand—all other operations are hydraulically controlled from the driver's cab. The Dempster-Dinosaur can pick up from ground level, transport and put down its own body, empty or loaded, without the driver leaving the cab. Body sizes range from 10 to 40 cubic yards.

The range of small power tools is becoming more extensive daily. With the easy payment terms available and the facilities for the 'do it yourself' types to hire small tools, it is slightly ironic to see the craftsman struggling with conventional tools on some jobs. Employers will have to provide more power tools and employees will have to use them in the competitive days ahead.

THE RAWLPLUG CO. LTD., Rawlplug House, Cromwell-road, South Kensington, SW7, showed and demonstrated their well-known range of devices for surmounting fixing problems. I especially liked the recently introduced R.P. 2 two-speed dual-purpose electric drill. With its high speed of 1,200 r.p.m. it is suitable for general purpose work, using standard twist drills up to 5/16 in. diameter. At a touch of a button the clutch speed is reduced to 400 r.p.m. for use with Durium masonry drills.



The Rapier 1520 Mobile Crane with 80-ft. strut jib

New Mobile Crane

RANSOMES & RAPIER LTD., Waterside Works, Ipswich, showed for the first time the 'Rapier' 1520 mobile crane. With extendable strut jibs from 30 ft. to 80 ft., cantilever jibs and extensions from 24 ft. to 50 ft., and a turning circle of only 21 ft. 6 in., this newcomer can be easily handled and is highly manœuvrable. Propped, it can handle loads up to 15 tons, and up to 8 tons free on wheels. I particularly admired the cupola type cab with its excellent all-round vision and controls positioned so conveniently for ease of working.

ACCESS EQUIPMENT LTD., Maylands-avenue, Hemel Hempstead, Herts., showed two new items. The 'Bicep' hydraulic lifter (an elevating platform) and the Access Wall Spider. The latter is a power operated suspended platform, particularly useful for building face maintenance work, etc.

LIGHT ALLOY CONSTRUCTION LTD., Mowden Hall, Darlington, were showing a very new range of aluminium ladders. Their lightness, strength and economy combine with a versatility in size and use that will make 'Lacon' aluminium ladders a name of which much more is likely to be heard in the future.

DARGUE BROTHERS. LTD., New Simplon Works, Halifax, exhibited drafting machines and drawing tables. I always get a feeling of progress whenever I come across any development likely to help that all important section of building where plans materialise. Dargue Bros. were showing for the first time a combined technical school desk and writing desk, which can be converted into a vertically mounted drawing board in about 10 seconds. I got the feeling that the 'Simplon' Duodesk could fit into many professional offices as easily as in the classroom. Another product which I found particularly useful on the same exhibitor's stand was a vertical plan filing unit.

I wish I had space adequately to describe the new products showing for the first time by CATERPILLAR TRACTOR CO. LTD. Let me add that several new machines were on view, all of which possess many new and improved features likely to appeal to contractors engaged in earth moving and ancillary works.

LMBA

Central Area No. 3 Luncheon

ALWAYS ONE OF THE MOST PLEASANT of London builders' functions, the summer luncheon of the LMBA Central Area No. 3, held in Stationers' Hall on Tuesday, fully maintained its reputation. Encouraged no doubt by the genial chairmanship of Mr. Leslie Colls, MR. R. F. MANSELL (senior vice-president LMBA) put in a plea for another look at the question of retention moneys. 'Builders,' he said, 'will be well aware how small a part of the 10 per cent of the contract sum retained is expended on making good defects, yet all too readily they agree when the achitects propose it. Architects,' he told his appreciative audience, 'should consider whether such a high percentage of retention does not reflect upon their supervising endeavours. It is time that this means of financing the building owner ceased.'

In responding for 'the guests,' proposed by Mr. C. F. Elvins, DR. C. A. HART (director-designate, LMBA) made an excellent impression. His remarks will be reported in a later issue. Much regret was felt at the announcement made by the Chairman, that this area luncheon would be the last attended in his official capacity by Mr. R. J. Hunt, their most capable area secretary.

Institute of Building Surveyors

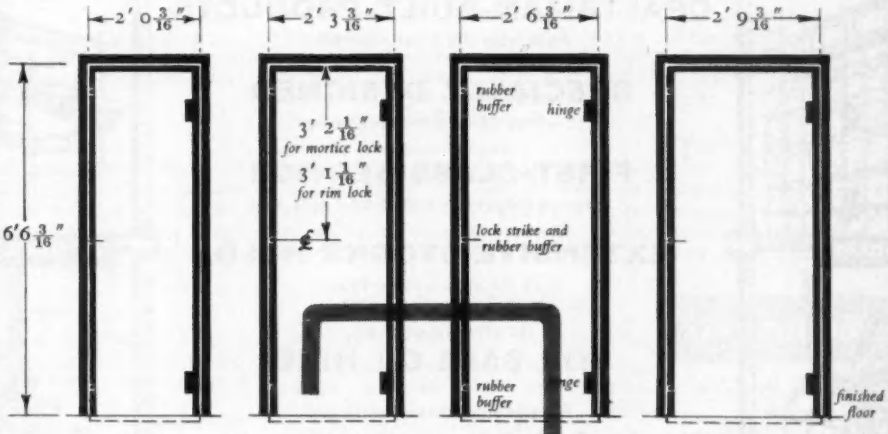
Sheffield Branch Meeting

A MEETING took place of this institute's Sheffield branch at Saxondale Hospital, Ratcliffe-on-Trent, Nottingham, on April 23, when correspondence was discussed from the South-East Metropolitan Hospital Board who wished to have a meeting with the chairman, Mr. T. Dennis, and the secretary, Mr. F. Baxter, at an early date. A good attendance is expected at the proposed annual meeting towards the end of May when the membership of the Institute will be approximately 200. The institute claims strong representation in the North and Scotland as well as in Wales.

At the meeting on April 2 Mr. R. Holmes from the East Anglian Regional Board was present. He will be contacting other officers in the area.

HOPE'S STEEL DOOR FRAMES

STANDARD TYPES AND SIZES NOW BEING MADE IN NEW PROFILE ·P·



DIP24 DIP27 DIP30 DIP33

SIZES are taken into rebates at head and jambs, and to finished floor level.

HOPE'S Steel Door Frames are manufactured from zinc-coated mild steel sheet of 18 BG and painted one coat of grey calcium plumbate rust-inhibiting primer before despatch.

Each door frame is provided with the following:

- 8 galvanized countersunk wood screws.
- 2 zinc-plated 5-knuckle steel hinges, one leaf welded into the frame and the other assembled with loose sherardized pin.
- 1 hot-dip galvanized adjustable lock-strike plate with mortar guard.
- 3 rubber buffers or shock absorbers are inserted in rebate of the lock jamb.

Base-ties are of heavy corrugated steel and are adjusted before despatch to set frame to level of finished floor.

Floor fixing plates are provided at bottom of each jamb.

Send for List No. 362

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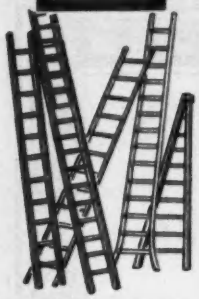
LADDERS



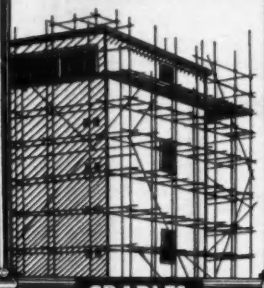
TRESTLES

Building

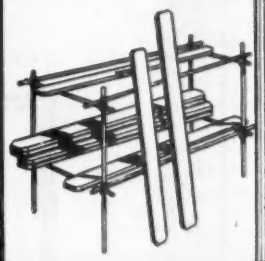
STEPHENS & CARTER

Equipment

SCAFFOLDING



SCAFFOLD BOARDS



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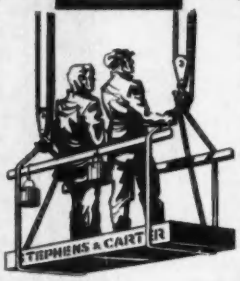

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Extensive variety including Pole, Extension, Push-up or Rope-operated, etc.

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All types—Independent, Putlog, Cantilever, Birdcage or Slung.

CRADLES
Travelling and fixed types for straight or curved frontages.

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All lengths from 10 ft. to 24 ft., 18 in. wide.

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4 tread to 20 tread.

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All lengths.

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Safe, strong metal construction.

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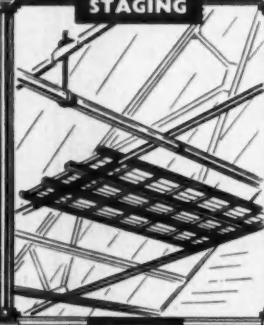
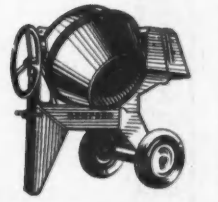
STAGING



WHEELBARROWS

STEPS

'BENFORD' CONCRETE MIXERS



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AD/SC38

Trade News

'EJMA' Standard Bedroom Units

THE response to the announcement by the English Joinery Manufacturers' Association of a new range of 'EJMA' standard bedroom units has been considerable. Initially, not all licensed producers under the 'EJMA' certification trade mark will be in a position to supply these units, and to assist professional and trade inquirers, the Association is issuing a list of those licensed producers who intend to manufacture 'EJMA' standard bedroom units. Copies from EJMA, Sackville House, 40 Piccadilly, London, W1.

Requisition

THE CHAMBERLAIN GROUP of civil engineering and building construction companies, with headquarters at 3 Buckingham Palace-gardens, London, SW1, states that it has acquired the north country civil engineering and railway contracting firm of Grant, Lyon & Co. Ltd.

New Distributors

F. HILLS & SONS LTD., manufacturers of 'Duramel,' a plastic faced plywood, have appointed William T. Eden & Co. Ltd., of 76-77 The Parade, Birmingham 1, and Great Brick-Kiln-st., Wolverhampton, as a distributor in the Birmingham area.

New City Office Opened

WATES LTD., the building and civil engineering contractors of London-road, Norbury, have created a new property development division with offices at 5 Copthall Buildings, Copthall-avenue, London, EC2. Telephone: National 8755.

Change of Address

COLLIS & HAYNES LTD., builders and decorators, have moved to new premises at 12a Vincent-road, Tottenham, N15.

Standardisation of Manufacture

COPPERAD, LTD., the heating and ventilation equipment manufacturers of Colnbrook, Bucks, announce that they have discontinued the manufacture of Wallstrip equipment type 'R' (Radiant) and 'RC' (Radiant Convective). This is because of the continued demand for Wallstrip type 'C' (Convective) which requires the full use of the productive capacity of their Colnbrook factory.

Marketing Agreement

AN AGREEMENT with A/S Flamingo Foam, of Copenhagen, Denmark, for the purchase of its British subsidiary, Flamingo Foam Ltd., of 34 Victoria-street, London, SW1, is announced by Monsanto Chemicals Limited. The Danish company manufactures foamed polystyrene board, a widely used thermal insulation material, and, under the terms of the agreement, Flamingo Foam Ltd. will now manufacture and market its own insulating board in Britain.

New Premises

THE HEAD OFFICES of The British Plaster Board (Manufacturing) Ltd. are now established at 15-17 Marylebone-rd., London, NW1.

New Main Distributors

CARTWRIGHT AND CO. (IMPORTERS) LTD., of Honduras Wharf, Snow Hill, Birmingham, 4, are now acting as the main distributors for the Bartrev Board Co., Ltd., for the Midlands area, covering Warwickshire, Staffordshire, Leicestershire, Derbyshire and Nottinghamshire.

New Office Premises

LEO CLYNES LTD. have now established their head office at Fulwood House, Fulwood-place, Holborn, WC1. Tel. No. Chancery 8986.

New Sales Division

CAUSEWAY REINFORCEMENT LTD., of Five Ash Works, Dover-road East, Northfleet, Kent, have set up a Trestle Sales Division. The trestles are now available in the range of twelve sizes and four types for use with a 3 in. x 4 in. beam, a standard scaffolding plank, either upright or flat, or a standard scaffolding pole.

Pipework Division Formed

STEWARTS AND LLOYDS LTD., the steel tube company, have set up a Pipework Engineering Division which will be responsible for the making and marketing of all forms of manipulated pipework.

Britain at Kariba

Contractors' Impressive Contribution

BRITISH contractors have played an impressive part in the Kariba project to be inaugurated by Her Majesty Queen Elizabeth the Queen Mother on May 17. The pioneering work, including the preliminary site investigation, the enormous diversion tunnel and the cofferdam foundations, were done by the Cementation Group of companies. In all, the value of Cementation contracts at Kariba, including extensive drilling and grouting work on the main dam and ancillary structure, totals £3½m.

The Laing Group were associate contractors for the preliminary work and were themselves awarded road, rail and airport contracts valued at £1¼m.

Overlooking the dam, the £3½m. Kariba township accommodating 10,000 people, complete with schools, churches, power, water and sewerage services, was completed by the Costain Group in only 15 months.

Opportunities in the UAR

A SMALL party of British businessmen and industrialists headed by the Hon. George Nelson, managing director of the English Electric Co. Ltd. and vice-president of the Advisory Council on Middle East Trade, recently returned from a visit to the United Arab Republic. In a preliminary report the mission stated on April 21 that the second Five-Year Plan, due to begin in July, presented wide opportunities for civil engineering knowledge and equipment emanating from the United Kingdom. The cost of the plan will be in the region of £E950m. to include public utilities and housing. The full report will be published shortly.

Dairy Show Addition

AT THE DAIRY SHOW this year, which will be held at Olympia, London, towards the end of October, it is planned to introduce a new section solely for farm buildings. All types of building used on the farm will be exhibited including ancillary equipment such as heating, lighting and ventilation. The new section will give the farmer an opportunity to see for himself the most up-to-date and labour-saving types of building and at the same time obtain expert advice on his own particular building problems.

The focal point will be an extensive exhibit by the Ministry of Agriculture, Fisheries and Food, which will concentrate on loose housing of the dairy herd and will embrace easy methods of feeding and the proper siting of the milking parlour and dairy. It is also proposed to stage an exhibit high-lighting the choice of the milking parlour and to advise individual farmers on the spot as to the type of parlour to suit their particular farming needs.

Extended Range

CONEX-TERNA LTD., of Whitehall-rd, Great Bridge, Tipton, Staffs, have greatly extended their range of radiator valves, details of which can be obtained from their latest folder, CR/3, on application.

OVERSEAS BUILDING

From Our Own Correspondents

AUSTRALIA (QUEENSLAND): Mr. T. Kelly, managing director of Woolworths Ltd., has stated that his company is to spend over £1¼m. during the next 12 months on building 5 or 6 large supermarkets to open before March, 1961 and a major extension to the company's meat and small goods factory in Brisbane. . . . Brisbane city council is calling for tenders for preliminary work on the 45,000m. gallon North Pine River dam near Petrie which ultimately will become the city's second source of water supply. The Lord Mayor has stated that the tenders are for drilling work to test foundations. The total cost is estimated at £7m.

AUSTRALIA (WESTERN): B.P. Australia Ltd. will spend £A8m. to £A10m. on the construction of a new refinery at Kwinana.

The managing director of the company, Mr. Seddon, has said that the new refinery would produce about 100,000 tons of lubricants a year for the Australian and export markets. It is already in an advanced state of planning.

AUSTRALIA (WESTERN): Tenders are being called for major extensions to the Adelphi Hotel at St. George's-terrace, Perth. It is proposed to almost double the number of bedrooms and to add a big convention room capable of taking 1,000 people. . . . The Geraldton municipal council would invite the Chevron Hotel group to build a multi-storey luxury hotel in Geraldton. The company would be offered the lease of a suitable site on Pt. Moore peninsula.

CANADA: Toronto Harbour Commission plans the expenditure of another $18.5m. on harbour construction. . . . A package cargo terminal is to be constructed at the Lakehead, Ont. to cost $7.5m., scheduled for completion by late 1961. . . . A $3m. housing construction programme is being considered by the federal government for St. John's, Newfoundland. . . . A $3m. 50-shops shopping centre is to be constructed at Burlington, Ontario.

PHILIPPINES: Henry Simon, Ltd., of Cheadle Heath, near Manchester, have been awarded a contract worth nearly $1½m. for the building of a new flour mill at Cebu.

RHODESIA (SOUTHERN): Bulawayo City Council's £8m. proposals to ensure Bulawayo's water supplies over the next 25 years envisage two large dams, the second, costing about £2m. being larger than Lake McIlwaine. The proposal is that the two dams should be astride tributaries of the Unzingwane River, one on the Inyunkuni about 37 miles from the city and the second on the Insiza, 10 miles further away. The 25-year plan would start in 1962 with the building of the Inyunkuni dam (costing about £750,000) and a seven-mile tunnel linking the new dam with the existing Ncema dam (and costing about £600,000). Work on the construction of the Insiza dam (costing £2,000,000) is scheduled to start in 1973 and to take three years. A total of four water tunnels linking the dams to each other and to the city are envisaged, costing in all about £2,970,000.

THAILAND: On April 19 the directors of the Bangkok Intercontinental Hotel Co. Ltd. interviewed the managing director of the Tourist Organisation of Thailand. The company an affiliate of the International Hotel Corporation which already operates 16 hotels and has two under construction in Bangkok, proposes the construction of a new 400-room hotel to international standards.

WEST INDIES (JAMAICA).—Underwriting is proceeding for a loan of £3,380,000 which is being raised in London by the Government of Jamaica for the financing of airport development and other works in the Ten-Year Plan 1957-67.

Permanent Decorating Display, Athens

ACCORDING TO THE LONDON BUILDING CENTRE, a permanent exhibition of building and decorating materials is proposed to be set up at 9 Valaoritou-street, Athens, Greece. British manufacturers interested in exhibiting should write to the Managing Director.

Nigerian Plant to Produce Materials

ASBESTOS CEMENT PRODUCTS (NIGERIA), LTD., is to set up its factory at Ikeja, near Lagos. The Congo subsidiary of the Belgian company, Eternit, has subscribed a majority shareholding in the company, and associated with Eternit is the Italian company, Impresa Astaldi Estero, and a group of British commercial companies. The company will initially produce building materials, principally plane and undulated cement sheets, various types of roofing materials, and builders' tubes and pipes. Production will begin in August.

SCOTTISH BUILDER

Approval for Road Scheme

THE SECRETARY OF STATE FOR SCOTLAND has approved a £200,000 scheme for reconstructing four miles of the Cairndow-Strachur-Toward road (A815), between Creggans, north of Strachur, and Loch Eck.

The scheme will provide an 18-ft. wide carriageway with an over-all road width of between 25 and 28 ft. Several gradients will be made less steep, corners will be eased and a number of small diversions built to give a better line of road. The work will be carried out by James Miller & Partners, Edinburgh, under the direct control of the Scottish Home Department.

Paint Association's Symbol

A SYMBOL DESIGNED by a Dundee art student in a competition open to students of the four Scottish art schools and colleges—Aberdeen, Dundee, Edinburgh and Glasgow—has been adopted by the recently-formed Scottish Association of Paint Manufacturers.

The winning design is in the form of a thistle, with the ball of the thistle quartered by a St. Andrew's Cross, and the letters SAPM in the quarter sections. First award went to Mr. Iain A. Robb (Dundee College of Art), Broughty Ferry. The two commendatory awards were made to Miss Mary N. M. Ford (Edinburgh College of Art), Fairmilehead, Edinburgh 10; and Mr. James Sloan (Glasgow School of Art), Glasgow, C3.

Heliport for Glasgow

GRAMPIAN HOLDINGS LTD., a company which proposed the erection of a heliport in the Gorbals area of Glasgow, have acquired planning permission, and now hope to begin work this year. SIR JAMES HUTCHISON, Bt, chairman of the Company, told the annual meeting that their proposals would make Glasgow Green a most convenient place for helicopter landing. The scheme they proposed was a long-term one, involving rail and road access, hotels and other facilities. An expenditure of more than £1,000,000 and many years of construction was involved.

College Extension

PAISLEY TECHNICAL COLLEGE is to be extended at a cost of £500,000. Dean of Guild approval has been given for this extension which involves laboratories, lecture rooms, administrative rooms and a refectory. Architects for the project are Alison & Hutchison & Partners, of Edinburgh and Kirkcaldy, who were awarded the first prize of £1,500 for the design of the new building in a competition sponsored by the governors.

Historic Site Acquired

HIGHLAND ENGINEERING LTD. have acquired the historic Tron Church at the High-street, Edinburgh, for redevelopment. The Corporation has meantime indicated that it intends to preserve the building as an historic site. Future development of the site now remains to be clarified.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from April 18, 1960. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 11½d.; Labourers, 4s. 4d.

For apprentices, the rates are:

Year	*Percentage of Craftsman's rate*	*For week of 44 hours* s.	d.
1st	25	54	6½
2nd	33⅓	72	9
3rd	50	109	1
4th	66⅔	145	6
5th	75	163	7½

For female labour, the rates are:

	s.	d.
Operatives on craft operations (at end of probationary period)	4	4
Operatives on labouring operations (at end of probationary period) ...	3	10

New Buildings

AYR CC.—New 3in. dia. water main, etc., at Harperland and Ploughland small holdings, nr. Dundonald. Applications to Water & Drainage E., County-bldgs., Ayr.

EAST LOTHIAN CC.—Widening and surfacing of Yellowcraig-rd. Applications to County Clerk, County-bldgs., Haddington.

EDINBURGH CORPN.—Construction of brick outhouses at Crawley Cottages, Glencorse, Midlothian. Applications to City Water E, 6 Cockburn-st., Edinburgh 1. . . . Repairs to property at Talla Reservoir, Peeblesshire. Applications to above.

FIFE POLICE JOINT COM.—Proposed new police divisional headquarters at Cupar. All trades. Applications to Clerk, Fife Police Joint Committee, Wemyssfield, Kirkcaldy.

GLASGOW CORPN.—Several works contracts for:—(a) Proposed special sch. at Crookston-hse., Glasgow, SW2. (b) Proposed College of Further Education, Barmulloch, Glasgow N. (c) Proposed prim. sch. Simshill site No. 2. Applications to City A & Planning Officer, 20 Trongate, Glasgow.

KIRKWALL CITY & ROYAL BURGH.—Construction of main sewers with sea outfall to the Bay of Kirkwall, comprising about 43 yd. of 24in. dia. spun iron pipes and 9,028 yd. of 15 to 24in. dia. asbestos-cement pipes with sleeve joints, etc. Applications to Messrs. Crouch & Hogg, 18 Woodside-cres., Glasgow. Dep. £5.

KIRKCALDY ROYAL BURGH.—Surface dressing (whinestone and gravel) of 40,010 sq. yd. of roadways in Kirkcaldy. Applications to Burgh E&S, Town House, Kirkcaldy.

LANARK CC.—Erection of a new prim. sch. at Balmuildy-rd., Bishopbriggs. Several works contract. Usual trades. Applications to County Clerk, Lanarkshire-hse., 191 Ingram-st., Glasgow C1.

ROSS & CROMARTY CC.—Construction of approx. 1,300 yd. of 6in. sewers with septic tank, manholes and all relative works, at Inver in the Parish of Tain. Applications to County Water E., Burn-pl., Dingwall.

STEWART OF KIRKCUDBRIGHT CC.—Construction of filter station in brickwork, rc concrete settling tanks and effluent pipe, four rc concrete water storage tanks and other contingent works. Applications to County E, County Offices, Kirkcudbright.

WEST LOTHIAN CC.—Erection of 12 houses and two shops at Castleloan, Bo'ness. Usual trades. Applications to County Clerk, Count-bldgs., Linlithgow.

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THE BUILDER CONSTRUCTION NEWS

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those preceded by the symbol (A) are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. The symbol (R) preceding each entry indicates that applications must be received by this date.

BUILDING

MAY 17

(AR) BIRMINGHAM CITY C.—Firm price tenders for:—(a) Four shops and dwellings at Windsor-st., Nechells Green. (b) 20 dwellings at Handsworth and Kingstanding. (c) 16 dwellings at Harbourne and Northfield. City A. Dep. £2 2s. (each contract). Tenders by June 16.

MAY 18

(AR) SURREY CC.—Adaptations and extensions at Sandfield CP sch., Guildford. County A.

MAY 19

(AR) ALCESTER RDC.—Fixed price tenders for 10 houses and eight bungalows at Salford Priors. S. Dep. 2s 2s.

MAY 20

(AR) TWICKENHAM BC.—New salvage store at Charlton refuse disposal works, Shepperton. Boro' E. Dep. £2 2s.

MAY 21

(AR) ESSEX CC.—Firm price tenders for two additional classrooms at Colchester county high sch. for girls. County A.

(AR) ESSEX CC.—Firm price tenders for new civic centre at Colchester. County A.

SHANNON (EIRE) FA.—Erection and completion of 30 dwellings at Shannon Airport, Co. Clare, for Shannon Free Airport Development Company Ltd. QS's are Dermod J. O'Brien, 87 O'Connell-st., Limerick. Dep. £25.

(AR) STAFFS. CC.—Inclusion on approved lists for building, electrical, heating and maintenance work. County A.

MAY 23

(AR) BEDS. CC.—Fixed price tenders for erection of CP infant sch., Sundon Park. County A.

(AR) LEICESTER CITY C.—Firm price tenders for re-servicing of athletics track at Loughborough Training College. County A. Tenders by June 13.

NEWTOWNABBEY UDC. — Alterations and improvements to the Town Hall. Town Surveyor, Town Hall, Whitehouse, Newtownabbey, Co. Antrim. Dep. £3 3s.

(AR) PORTSMOUTH CITY C.—(a) Proposed booking office, restaurant, snack bar and public convenience at the IoW Car Ferry. (b) Extensions to Rock Garden pavilion. City A. Dep. £1 (each contract).

PORT TALBOT BC.—(a) 54 maisonettes at Harry site, Sandfields, Aberavon. (b) 36 dwellings at Fairfield, Aberavon. Boro' E. Dep. £ 2 2s. (each contract).

MAY 24

(AR) EASTBOURNE CBC.—Erection of sun lounge and café on Wish Tower Slopes. Boro' E. Dep. £2 2s. Tenders by July 22.

(AR) EAST SUFFOLK CC.—Firm price tenders for extensions to the County Hall, Ipswich. County A. Tenders by June 14.

MAY 25

MANCHESTER CITY C.—Alterations to sch. meals kitchen at Crumpsall Open-Air sch. City A.

NEWCASTLE-ON-TYNE EC.—New caretaker's house at Hillsview prim. sch., Carsdale-rd., Newcastle-on-Tyne 3. Dep. £5 5s.

MAY 27

TRALEE (EIRE).—Proposed additions and alterations to Bon Secours Hospital, Tralee, Co. Kerry. J. R. Boyd Barrett, 5 Camden-pl, Cork. Dep. £10 10s.

MAY 30

(R) NORTH-WEST METROPOLITAN REGIONAL HOSPITAL BD.—Developments at Luton and Dunstable Hospital, Dunstable-rd., Luton, Beds. (est. cost £500,000). Regional A, 40 Eastbourne-terr., W2.

(AR) WEST RIDING OF YORKSHIRE CC. —Adaptations to form branch library and clinic at The Carlisle Institute, Meltham. Divisional A, Flint-st., Huddersfield. Tenders by June 13.

MAY 31

(AR) SWANSEA CBC.—17 maisonettes and six shops at Lyfatty. Boro' A. Dep. £2

JUNE 3

(A) BRAINTREE & BOCKING UDC.—Fixed price tenders for:—(a) 29 houses, outbuildings, screen walls and four garages. (b) 16 houses, eight flats, outbuildings, screen walls and seven garages. S. Dep. £2 2s.

(A) CHERTSEY UDC.—Supply and erection of 95 concrete prefabricated garages, etc., on various sites. E&S. Dep. £1 1s.

(A) CHERTSEY UDC.—(a) Six houses at Broomfield-rd., New Haw. (b) Four houses at Fordwater-rd., Chertsey. E&S. Dep. £2 2s.

(A) GILLINGHAM BC.—Fixed price tenders for 20 houses and 12 garages at Henley Close, Rainham, Kent. Boro' E. Dep. £5 5s.

(A) WOKINGHAM BC.—57 dwellings and nine garages at Norreys Barn estate. Boro' S. Dep. £2 2s.

JUNE 4

(A) OLDBURY BC.—Fixed price tenders for 78 dwellings and four garages at Stone-st. and Lodge-st. Wood & Kendrick & Williams, architects, 57 Colmore-row, Birmingham. Dep. £2 2s.

JUNE 7

(A) BOURNEMOUTH CBC.—Fixed price tenders for erection of youth club at East Howe Girls' sec. sch. Boro' A. Dep. £1 1s.

(A) CATERHAM & WARLINGHAM UDC. —Demolition of three cottages and erection of one pair of houses at Nelson-rd., Caterham. E&S.

NORTHERN IRELAND MINISTRY OF FINANCE.—Proposed extensions and alterations at Loughry Agricultural College, Cookstown. Applications to Room 103, Law Courts Building, Belfast. Dep. £5.

JUNE 8

(A) FELTHAM UDC.—Extension to mortuary at Sunbury-rd. L. J. Grimshaw, LRIBA, AMICE, Lynton-hse., Hanworth-rd., Feltham. Dep. £2 2s.

JUNE 10

(A) READING CBC.—Fixed price tenders for conversion of two shops into two flats at Southcote Farm-la. Boro' A.

JUNE 11

(A) STRETFORD BC.—Firm price tenders for 12 flats at Winchester-rd. Boro' S. Dep. £2 2s.

JUNE 13

(A) READING CBC.—Firm price tenders for sundry alteration works at George Palmer sch., Basingstoke-rd. Boro' A. Dep. £2 2s.

(A) RUGBY BC.—Sixteen two-storey flats at Featherbed-la. Boro' S. Dep. £2 2s.

JUNE 15

(A) CARDIFF CITY C.—Fixed price tenders for sub-divisional police station at Cowbridge-rd. west, Ely. City A. Dep. £2 2s.

JUNE 17

(A) GILLINGHAM BC.—Fixed price tenders for 62 flats and 44 car ports, etc., at Goudhurst-rd. Boro' E. Dep. £5 5s.

JUNE 20

(A) BRADFORD CITY C.—24 bungalows at Westfield-la., Wyke. City E&S. Dep. £2 2s.

JUNE 24

ELLESMERE PORT BC.—Erection and completion of a public library at new civic centre. Messrs. Gornall, Kelly & Ptnrs., Ccl's. architects, 155 The Albany, Old Hall-st., Liverpool. Dep. £5 5s.

JULY 9

(A) BISHOP'S STORTFORD UDC.—12 flats, 12 garages and incidental works at Parsonage-la. E&S. Dep. £2 2s.

SERVICES, PAINTING, MATERIALS, ETC.

MAY 18

(AR) BOURNEMOUTH CBC.—Fixed price tenders for: (a) central heating circuit and hot and cold water installation; (b) electrical installation, and (c) copper roofing for extensions to St. Michael's sch., West Hill-rd. Boro' A.

MAY 23

(AR) CORNWALL CC.—Separate sub-contracts for: (a) Heating, hot water and ventilation installations, and (b) electrical services. County A. (Fixed price tenders.)

MAY 27

(A) ALTRINCHAM BC.—External painting of 174 houses. Boro' S.

MIDDLESBROUGH CBC.—Materials and services. Boro' E.

(A) SUTTON & CHEAM BC.—Redecoration works, etc., to 121 houses on Corporation's housing estate, Worcester Park, Surrey. Housing Mgr. Dep. £1 1s.

MAY 29

(A) SURREY CC.—Construction of spray painting shop at 'Cold Blow' vehicle repair depot. County E.

MAY 30

(A) STEPNEY MBC.—Two passenger lifts in nine-storey block of 52 flats at Smith-st. housing scheme. Riches & Blythin, 16 Northumberland-ave., WC2. Dep. £2 2s.

MAY 31

(A) HARROW BC.—Replacement of boundary and garden fences, side entrance gates and close boarded screen on corporation's Pinner Hill estate, Pinner, and Berridge estate, Edgware. Boro' E&S. Dep. £2.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MAY 23

BASINGSTOKE BC.—Construction of roads and sewers at South Ham. Boro' S. Dep. £2 2s.

IPSWICH CBC.—Supply, delivery and laying of approx. 5,800 sq. yd. of 1½ in. bitumen macadam surfacing, etc. Boro' E&S.

STOCKTON-ON-TEES BC.—Supply and laying of approx. 15,000 sq. yd. of 3½ in. two-coat and 14,000 sq. yd. of 1½ in. and 2 in. single-coat asphalt on various sites in the borough. Boro' E. Dep. £2 2s.

MAY 30

EPSOM & EWELL BC.—Construction of roads and sewers, etc., at West-st., Ewell. Boro' E&S. Dep. £2 2s.

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NUNEATON BC.—3,800 sq. yd. of rc carriageway and 600 lin. yd. of foul and storm water sewers at Wood Farm estate. Boro' S. Dep. £2 2s.

(A) SPALDING RDC.—Laying of approx. 7,400yd. of 6 to 12in. dia. sewers, 2,200yd. of 4 and 9in. rising mains, construction of three sewage pumping stations and complete sewage disposal works for village of Donington. J. H. Haiste & Ptnrs., 44/46 Bridge-st., Peterborough. Dep. £3 3s.

MAY 31

FILEY UDC.—Primrose Valley scheme: 1,300yd. of 4 to 9in. sewers, and the construction of a pumping and ejector station. Acting S.

JUNE 3

(A) WOKINGHAM BC.—Roads, footpaths and sewers, etc., at Norreys Barn estate. Boro' S. Dep. £2 2s.

JUNE 8

WELLINGTON (Somerset) RDC.—Fixed price tenders for the provision and laying of about 21½ miles of 3 to 9in. dia. spun-iron pipes, and the construction of three rc reservoirs, etc., for northern and central parishes. Harvey, McGill & Hayes, Ccl's. constg. engrs., 8 Richmond-rd., Exeter. Dep. £5 5s.

JUNE 13

HILLSBOROUGH RDC.—Contruction of sewage disposal works at Galwally-ave., Newtownbreda. William Barklie Maxwell, constg. engr., 5 University-terr., Belfast 7. Dep. £10 10s.

JUNE 27

AMPTHILL RDC.—Laying of approx. 12½ miles of 7 to 15in. dia. concrete sewers, a mile of 4 to 10in. dia. asbestos-cement rising mains, construction of three pumping stations and a sewage disposal works. Binnie, Deacon & Gourley, engrs., Artillery-hse., Artillery Row, SW1. Dep. £10.

GENERAL BUILDING WORK (LONDON)

HACKNEY.—Reconstruction of Bridge.—The LCC Town Planning Com. have approved a scheme for the reconstruction of Temple Mills Bridge submitted by the appointed engineers, Messrs. F. R. Bullen and Partners. This provides for the construction of a new twin bridge to cater separately for eastbound and westbound traffic in place of the present bridge. The work will be carried out in conjunction with a widening by the Lee Conservancy Catchment Board of the River Lea, but the river widening cannot be completed until the present bridge is demolished. Est. cost of the demolition and bridge construction works is £224,000, and the cost of the river widening, which is to be borne by the Catchment Board, is estimated at £46,000.

HAINAULT.—Housing.—The LCC Housing Com. have approved proposals for developing three sites at Hainault estate, Essex, which are not now needed for the purposes for which they were reserved. Twelve terrace houses, twelve flats, 36 garages and eight tenants' stores are proposed at Manford Way, eight terrace houses and 24 garages at Staggart Green and seven terrace houses and ten garages at Marlyon-rd. The provision of a depot store in the yard of the area depot at the estate has also been approved. The est. cost, including architectural and incidental expenses, is £78,100.

ISLINGTON.—New Nursery School.—Plans for a new nursery school to replace Highgate Hill nursery sch. have been approved by the LCC Sub-Com. The new building will be erected on the site of the former Romilly Lodge county primary sch. and will have places for 60 children. The cost will be about £21,566. The site of Highgate Hill nursery sch. is required for an extension to Whittington Hospital.

LAMBETH.—Conversion of Dwellings.—The LCC Housing Com. have approved proposals for the conversion into self-contained flats and maisonettes of 274 South Lambeth-rd., a detached double-fronted Georgian house owned by the Council and listed as a building of architectural or historic interest. Three maisonettes will be provided on the ground and first floors, three flats on the ground floor, and two flats on each of the first and second floors. The est. cost of the work is £13,850.

LEWISHAM. — Housing. — The Housing Com. of the LCC propose to erect 309 new dwellings upon 17.9 acres of a site bounded by Grove Park-rd., the Inland Revenue playing fields, Mottingham public sports ground and Marvels-la., Lewisham. Sites are to be reserved within the same area for a school (2 acres) and for a youth centre (¼-acre). The dwellings will be mainly terraces of two-storey houses, some two-storey flats and old people's bungalows and an 11-storey block of flats with electric floor heating and two lifts. Including architectural and incidental expenses, the cost of the housing development is est. at £882,700.

STEPNEY.—New Secondary School.—The LCC Ed. Sub-Com. have approved a scheme for a new sec. sch. for 1,000 boys at Whitehorse-la., Stepney, at a cost of £437,578. The site is small—3.7 acres—and largely because of this the teaching block will be eight storeys high. The administrative accommodation will be in single-storey extensions at each end of the teaching block and the assembly hall will be close by. The new school is included in the building programme for 1960-61.

WANDSWORTH.—Road Improvement.—The LCC Town Planning Com. have submitted an estimate of £73,200 for the improvement of the intersection of Portsmouth-rd. with Kingston-rd. and Roehampton Vale, which is included in the Council's road programme. Part of Roehampton Vale was widened five years ago, and the widening from east of Stag Lane to the east gates of Putney Vale Cemetery will now be completed, including an adjustment of Portsmouth-rd. and the installation of traffic signals.

WESTMINSTER.—Rebuilding.—The LCC Schools Planning Sub-Com. propose to acquire land in Westminster at a cost of £145,000 in order ultimately to enlarge the site of Churchill Gardens county primary sch. Proposals for rebuilding the school on an enlarged site are included in the London School Plan. The properties to be acquired include 24 houses, eight shops and a public house and terms have been agreed with Westminster City C.

WOOLWICH.—Extension to Polytechnic.—The LCC Ed. Sub-Com. have approved a scheme for extending Woolwich Polytechnic by building three four-storey blocks on a site at Wellington-st., Polytechnic-st. and Thomas-st. at a cost of £334,240.

Contracts Placed

We are glad to receive from architects and quantity surveyors for publication details of contracts placed to the value of £20,000 or over. Such information should reach the Editor as soon as possible after the contract is signed. Names of the architect and other consultants associated should be given.

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(PROVINCIAL)

ASHTON-IN-MAKERFIELD.—MoW propose erection of telephone exchange at Bolton-rd./Hilton-st.

BASINGSTOKE.—TC propose to proceed this year with first stage of a three-phase scheme to improve the Town Yard, HQ for all Corporation employees and equipment. Est. cost is £11,550. Total cost is £31,640. . . . Boro' A has been asked to prepare a smaller alternative proposal for new Municipal buildings. TC had rejected previous plan, est. cost £226,000, on grounds of expense.

BELFAST.—Top priority is being given to the building of the new theatre and radiology block which is part of the Belfast Management Committee's £3,000,000 modernisation scheme for the Royal Victoria Hospital, a programme which is expected to take about five years to complete. The block, which will cost in the region of £500,000, will be constructed in two stages, the entire scheme taking about three years to complete.

BOURNEMOUTH.—EC to ask MoE to approve supplementary claim to increase Municipal College accommodation by addition of two storeys and to provide for an additional floor area of 26,276 sq. ft. at an extra cost of £100,518. TP Com. is to be asked for approval of plans. . . . EC to support proposal by CoE auth. that a new four-form entry sec. mod. mixed (VA) sch. be established in the town.

CARRICKBACKER (Co. Armagh).—J. Tomlinson, 4 Waring-st., Belfast, is the architect for an advance factory of 50,000 sq. ft. for Northern Ireland Ministry of Commerce.

CHESTERFIELD. — Sheffield Regional Hospital Bd. propose erection of 650-bed hospital at Ashgate.

CHORLEY.—The Governors of St. Joseph's RC (aided) sch. propose addition of two classrooms, hall and ancillary accommodation. Est. £19,800.

DEWSBURY.—BC propose erection of three-storey blocks of six flats at Thornton-rd.

DURHAM.—CC to erect grammar/technical sch. at Ferryhill. Est. cost £250,000. . . . CC has approved an informal application by Aycliffe Development Co., Churchill-hse., Newton Aycliffe, Co. Durham, to erect hotel, garage and showrooms at North-rd., Durham. . . . It is proposed to erect a dining hall at South Bailey, Durham City, for St. John's College. Cordingley & McIntyre, architects.

LANCASHIRE.—CC have approved a £304,930 plan for extensions at the County Offices, East Cliff, Preston, and adaptations at the County Hall. The East Cliff extensions will cost £263,000, with the remaining £41,930 on the County Hall.

LEIGH.—NCB propose reconstruction and improvement schemes at Bickershaw & Parsonage Colleries. Est. £3½m.

LIMERICK.—City C have adopted tentative plans for a £1m. housing scheme for the Watergate and St. John's Gate areas of the city. A report by Corporation officials recommends that the area should be developed in flats which would be substantially cheaper and would accommodate 213 families as against 113 in two-storey houses. At St. John's Gate, the plans envisage erection of 169 dwellings if space is made for a school site, or 200 dwellings without a school. It was pointed out that the existing schools in the area were inadequate and incapable of extension.

MACCLESFIELD.—BC propose new municipal offices and civic buildings.

MANCHESTER.—TC propose three residential homes for old people at Wythenshawe, £150,000 est. . . . College of Science & Technology propose new civil engineering buildings. . . . Packaging Products Ltd. propose single-storey extension and office at Collyhurst-rd. . . . Laskers Home Furnishers propose extensions to furniture showrooms at Oldham-st. . . . Wilsons Brewery Ltd. propose single-storey office block at Newton Heath Brewery. . . .

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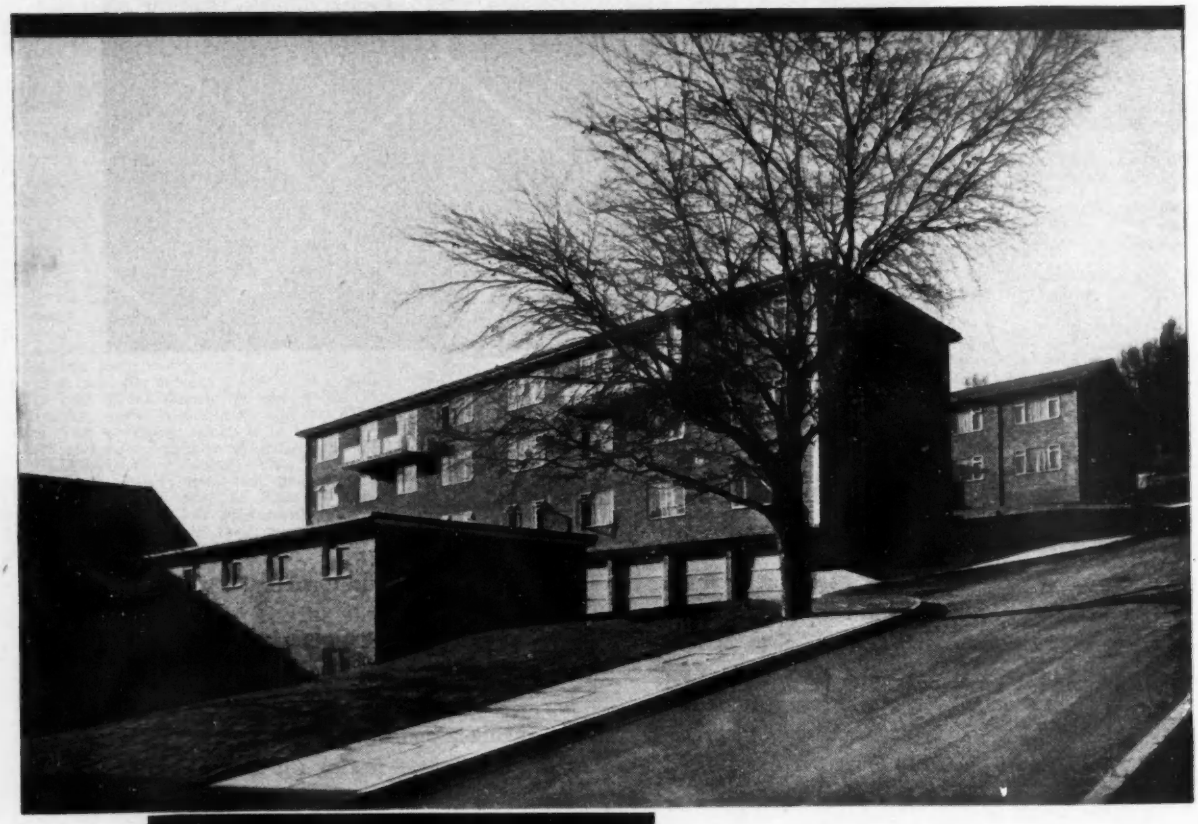

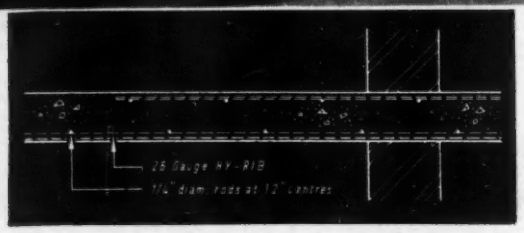

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Mr. M. Pogrel proposes warehouse extension at 3 Park-pl., Cheetham.

NEWBURN.—Aveling-Barford Ltd. are to erect a factory of 55,000 sq. ft. at Stanners Industrial site. Cost will be about £200,000.

NEWBURY.—RDC has approved plans by Mr. R. Bird for a new factory on land at Hambridge-rd. for the manufacture of wrought-iron gates.

NEWPORT.—The Harper Adam Agricultural College propose erection of dining hall/assembly hall, conference room and two halls of residence.

ORMSKIRK.—BC propose housing development at Aughton-st.

PORTSMOUTH.—Health & Housing Com. have approved sketch plans for two shops, 36 flats and 25 garages at Eastern-rd., Milton.

RICHMOND (Yorks.).—TC to borrow £20,000 for proposed new sewer at Darlington-rd. area. Plans by Boro' E.

SOUTH SHIELDS.—EC have appointed Page, Son & Hill, 75 King-st., South Shields, architects for proposed science laboratory at Mortimer-rd. county sec. sch.

SPENNYMOOR.—RC Auth. propose sec. mod. sch. . . . UDC is negotiating with The Arndale Property Trust, Bradford, for the erection of a new town centre. All the Trust's building work is carried out by Leslie & Co.

STEVENAGE. — The North-Western Metropolitan Regional Hospital Bd. are to build a new 400-bed general hospital and nurses' training school at Stevenage New Town, Herts. It is expected to be ready in six years and will cost approx. £3m.

WEST HARTLEPOOL.—TC to appoint architect for proposed hall, clinic and branch library at Owton Manor estate. . . . West Hartlepool Working Men's Club, Lynn-st., are planning new premises and negotiating for the necessary land.

WHITEPARISH (Wilts). — Salisbury & Wilton RDC have approved £20,704 as the cost of erecting 11 houses at Whiteparish.

WIGAN.—The Wigan Society for Mentally Handicapped Children propose erection of new community centre at Frank-st. . . . TC propose 14 old people's dwellings at Bradshaw-st., Whelley.

WORKSOP.—Notts. EC propose erection of sec. mod. sch. Sparken House. Est. £197,472.

TENDERS

(A) Denotes *accepted*.
(PA) Denotes *provisionally accepted*.
(RA) Denotes *recommended for acceptance*.
(AM) Denotes *accepted subject to modification*.
(GD) Denotes *accepted subject to approval by appropriate Government Department*.

ABERGELE.—150 houses and one lock-up shop for UDC. (A) Middleton & Co. (Contractors) Ltd., Bank-st. sidings, Blackpool, £215,641.

ACCRINGTON.—Erection of fish market for BC. Boro' E&S is B. Hartley. (A) 'Norpave,' Whalley-rd. works, Altham West, nr. Accrington, £14,496.

BARROW-IN-FURNESS.—16 flats and four garages at Holker-st. for BC. (A) Direct labour, £19,551.

BIRMINGHAM.—Following for City C.—Alterations and additions at Hartfield-cres. sch. (A) F. S. Sharman Ltd., Hollywood, Birmingham, £16,604.—Erection of infants' sch. at Northfield Manor prim. sch. (A) Parsons & Morrin Ltd., £48,970.

BOLLINGTON.—28 old people's dwellings at Ovenhouse-la. for UDC. (A) Sparks & Yearsley (Contractors) Ltd., Congleton, £39,755.

DARLINGTON.—Erection of laboratory block at Polam Hall sch. Miss Jean M. Ash, 27 Eastwood-gdns., Kenton, Newcastle-on-Tyne, architect. (A) Edgar Lawson Ltd., 27 Victoria-rd., Darlington.

DONCASTER.—Construction of three natural draught cooling towers at Thorpe Marsh power station for the Central Electricity Generating Bd. (A) J. L. Kier & Co. Ltd., £600,000.

DURHAM.—Proposed sewerage and sewage disposal scheme at Belmont for RDC. E. G. Lediard, Eldon-sq., Newcastle-on-Tyne, constg. engrs. (A) Tarslag Ltd., Bowesfield-la., Stockton-on-Tees, £96,900.

EDINBURGH.—Reconstruction of Bernard-st. bridge, Leith, for the Corpn. Blyth & Blyth, constg. engrs. (A) Holloways Scottish Constructions Ltd.

GATESHEAD.—Supply and installation of central heating system at Gateshead motive power depot, for British Railways. (A) Brightside Heating & Engineering Co. Ltd., Lambton-rd., Newcastle-on-Tyne.

GUISBOROUGH.—Supply and laying of 1,150 yd. of 6 and 9in. earthenware pipe sewers for proposed Lackenby and South Lackenby sewerage works for UDC. Balfour & Sons, 145 Pilgrim-st., Newcastle-on-Tyne, constg. engrs. (A) Ideal Builders (Redcar) Ltd., Broadway East, Redcar.

HAVANT & WATERLOO.—Fixed price tenders for 20 aged persons' flats at Forest-end Waterlooville, for UDC. E&S is R. R. Hole. (A) J. V. Figgins Ltd., 271a London-rd., Portsmouth.

HEBDEN ROYD.—11 'Homeville' flats and one lock-up shop at Dodd Naze estate for UDC. (A) Oldfield Watson.

HUDDERSFIELD.—Two students' hostels at Technical Teachers Training College for BC. (A) J. Wimpenny & Co. Ltd., Spurn Point, Linthwaite, Huddersfield.—Extensions to Lodge Sewage Works for CBC. (A) R. T. Haley & Co. Ltd., £650,000.

ILFORD.—Firm price tenders for:—(1) 12 flats at Atherton-rd. (2) 82 houses between The Glade and Fullwell-ave. for BC. Boro' E is H. J. Mulder. (A) Dennis Development Co., 27 Abbotsford-gdns., Woodford Green, £12,708 (1) and Jenners (Builders) Ltd., High-rd., Woodford Bridge, £143,067 (2).

LAMESLEY (Co. Durham).—Construction of two bridges for proposed marshalling yard for British Railways, York. (A) Dowsett Engineering Construction, Ltd., Durham-rd., Low Fell, Gateshead.

LIVERPOOL.—New premises at London-rd. for Arndale Property Trust Ltd., Bank-st., Bradford. (A) Leslie & Co. Ltd., Woodlands-rd., Darlington.

LONDON CC.—Extension to Teesdale estate, Bethnal Green, comprising flats and other work. (A) Walter Lawrence & Son Ltd., Finsbury, £312,300.

LONDON CC.—Provision of a new science block at Sir Walter St. John's sch., Battersea. (A) Sloggets (Contractors) Ltd., £41,719.

LONDON CC.—Major adaptations, complete eletrical rewiring, repairs and redecorations at Hammersmith College of Art & Building, Hammersmith.

M. J. Gleeson (Contractors) Ltd.	£85,215
Marshall Andrew & Co. Ltd.	84,422
Y. J. Lovell & Son Ltd.	82,762
H. T. Oliver & Sons Ltd.	80,136
Greenaway & Son Ltd.	78,096
W. J. Marston & Son Ltd.	76,000
A. Roberts & Co. Ltd.	73,950
Gray, Conoley & Co. Ltd.	72,070
(A) C. P. Roberts & Co. Ltd.	70,840

Architect's comparable estimate is £74,602

LONDON CC.—Improvements to teaching and sanitary accommodation at Sir Walter St. John's sch., Battersea North.

J. & C. Bowyer Ltd.	£47,900
Truett & Steel Ltd.	47,893
T. R. Roberts (Builders) Ltd.	46,062
Courtney & Fairbairn Ltd.	45,626
Howard & Co.	44,758
Rice & Son Ltd.	43,659
(A) Sloggetts (Contractors) Ltd.	41,719

Architect's comparable estimate is £43,063.

LONDON CC.—Improved teaching accommodation at Hackney Downs sch., Hackney.

C. E. Wilkinson Ltd.	£30,710
Tagg & Egerton Ltd.	29,621
R. J. Truscott Ltd.	28,276
William Blood Ltd.	28,089
S. C. Grover Ltd.	27,932
R. J. Adams Ltd.	27,573
(A) H. C. Horswill Ltd.	27,532

Architect's comparable estimate is £26,067.

(GD) LONDON (Air Ministry).—Contracts to the value of £500 or over for week ended May 6:— *Building work:* Mormond Hill, Aberdeenshire, Alexander Hall & Son (Builders) Ltd., Granitehill-rd., Northfield, Aberdeen. *Artificer's work:* Upavon (Wilts.), etc., Willcocks & Stephens Ltd., Lower Polsham-rd., Paignton, Devon; Lakenheath (Suffolk), etc., Walter Lawrence & Son Ltd., Ventnor-hse., London-st., Swaffham, Norfolk. *Painting work:* Cardington, Beds., Donald Humberstone & Co. Ltd., North Somercotes, Louth, Lincs. *Installation of central heating plant, etc.:* Chicksands, Beds., Troughton & Young (Heating) Ltd., Imperial Court, Basil-st., Knightsbridge, SW3.

(GD) LONDON (British Railways).—Contracts placed by Southern Region:— Wimborne and Ringwood, storage accommodation, Geo. Shears & Sons Ltd., Bouremouth, Hants.—Hythe (Frost Lane), construction of new signal box, Geo. Shears & Sons Ltd., Bournemouth, Hants.—West St. Leonards, station renovations, W. G. Beaumont & Son, E3.—Waterloo Station, repairs to asphalt surfaces, Durable Asphalte Co. Ltd., N1.—Clapham Junction, renovations to carriage cleaning shed, Maurice Hill Ltd., Horndean, Hants.—Wimbledon, heating installation to workshops, A. Smith & Sons (Heating) Ltd., Woking, Surrey.—St. Denys, cleaning and painting of bridge, Maurice Hill Ltd., Horndean, Hants.—Waterloo Station, repairs to roof glazing, Macartney & Sons, SW9.—Hastings, new telephone exchange, Walter Llewellyn & Sons Ltd., Eastbourne, Sussex.—Lymington Pier Station, construction of new dolphins and renewal of piling, Campbell & McGill Ltd., Winchester, Hants.—Waterloo Station, roof renovations, C. & T. Painters Ltd., NW10.—Victoria Station (Eastern Section), renewal of roofing, Robertson Thain Ltd., Wirral, Cheshire.—Ashford District, resurfacing and surface dressing of roads, footpaths and station platforms, Johnson Bros. (Aylesford) Ltd., Tonbridge, Kent.—Cannon Street Borough Market Bridge, supply and delivery of steel and ironwork and waterproofing of deck, The Fairfield Shipbuilding & Engineering Co. Ltd., Chepstow, Mon.—Extension of electrification, Folkestone Junction, construction of steel gantries over berthing sidings, John Laing & Son Ltd., NW7.—Estleigh Engineering District, resurfacing and a surfacing dressing of roads, footpaths and platforms, Limmer & Trinidad Lake Asphalt Co. Ltd., Eastleigh, Hants.—Exeter Engineering District, resurfacing and surface dressing of roads, footpaths and platforms, The General Asphalt Co. Ltd., NW5.

(GD) LONDON (Metropolitan Police).—Result of tenders for police building works:— External painting, Lanherne-hse., The Downs, Wimbledon, F. W. Streeton (Coombe) Ltd., £711.—Repairs and ameliorations to section house ablutions room, Notting Hill police station, Charles R. Price, £1,567.—Alterations and additions, Barkingside police station, A. G. Barton & Sons Ltd., £1,665.

B·A·T·S·F·O·R·D

Plumbing Materials & Techniques

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37*s.* 6*d.*

4 Fitzhardinge Street W.1

(GD) LONDON (War Dept.).—Contracts placed for week ended April 29:—*Ayrshire:* Miscellaneous, Scottish Aviation Ltd., Prestwick. *Berkshire* (Aborfield): Redecoration, Architectural Decorators Ltd., London, SW1. *Hampshire* (Bordon): Painting, P. J. Hartel (Southern) Ltd., Southampton.—(Aldershot), Building, Lee Bros. (Aldershot) Ltd., Aldershot.—(Aldershot), Painting, Arnold Sharrocks Ltd., Ash, Aldershot. *Kent* (Hythe): Painting and decorating, T. H. Kenyon & Sons Ltd., London, W9. *Monmouthshire* (Chepstow): Heating and ventilating, Arthur Heaton & Co. Ltd., Liversedge. *Midlothian* (Edinburgh): Building, William Arnott McLeod & Co. Ltd., Edinburgh 11. *Somerset* (Watchet): Redecoration, P. J. Hartel (Southern) Ltd., Southampton. *Warwickshire* (Bramcote): Roadwork, Constable Hart & Co. Ltd., Derby.

MALTBY.—Extension to factory for D. Byford & Co. Ltd. Bryan & Harding, architects. (A) Stimpson & Rollston, £28,867.

MANCHESTER.—Head office building at Mosley-st. for Williams Deacon's Bank Ltd. (A) Leonard Fairclough Ltd., Chapel-st., Adlington, Lancs.

MATLOCK.—21 bedroomed flats at Church-rd., Darley Dale, for UDC. (A) Mr. J. Moorhouse, Heanor-rd., Codnor, £20,302.

NEWCASTLE.—Erection of three-storey ward block at Ashington Hospital for Newcastle Regional Hospital Bd. Thomas Barrett, Sons & Ptnrs., quantity surveyors. (A) R. Carse & Son Ltd., Amble, £219,305.

NEWCASTLE-ON-TYNE.—Extension to research block at King's College for Durham University. Basil Spence, 40 Moray-pl., Edinburgh, architect. (A) John Laing & Sons, Dalston-rd., Carlisle.

NEWCASTLE-UNDER-LYME.—150 flats at George-st. for BC. (A) G. & J. Seddon Ltd., Hulton, Walkden, Manchester, £249,618.

NEW SARUM.—Fixed price tenders for 40 houses, 24 flats and 11 bungalows, with outbuildings, etc., at Bishopdown estate, Salisbury, for City C. (A) A. J. Dunning & Son (Weyhill) Ltd., Andover, Hants., £101,931.

ORMSKIRK.—16 houses at Green-la. estate for BC Housing Com. (A) Berry & Hollowell Ltd., £22,790.

OXFORDSHIRE.—New research establishment at Culham for the Atomic Energy Auth. (A) Messrs. Gleeson Ltd.

RICHMOND.—Erection of showrooms and offices at Sheen-rd. R. Seifert & Ptnrs., architects. (A) Stirton Partners Ltd., North Finchley, N12, £36,000.

RIVINGTON & BLACKROD.—Extensions to grammar sch. for Lancs. EC. (A) W. Lionel Gray (1933) Ltd., Farnworth, £20,362.

ST. HELEN'S.—Six shops and eight maisonettes at Tickle-ave., Chancery-la site, Parr, for CBC. Boro' E is M. Ward. Messrs. Gornall Wainwright & Co., quantity surveyors. (A) Direct labour.

SEDGEFIELD.—42 houses on various sites for RDC. Plans by Housing Architect, Council Offices, Sedgefield. (A) Direct labour.

SPENNYMOOR.—Alterations and additions to Town Hall for UDC. (A) G. Stephenson (Builders & Contractors) Ltd., Chester-st., Bishop Auckland, £40,699.

STAFFORD.—New factory for Evode Ltd. (A) Wilson Lovatt & Sons Ltd., Clarence-st., Wolverhampton, £120,000.

STARTFORTH (Yorks).—Laying of water mains and construction of reservoir in connection with Bowes-Boldron water supply scheme for RDC. Fairbank & Son, 62a Bootham, Yorks., constg. engrs. (A) Squire Swift Ltd., Portholme-wrks., Selby, Yorkshire, £38,343.

SUNDERLAND.—26 terrace houses at Percy-ter. for TC. (A) Direct labour.

WALLASEY.—Assembly hall, dining room and kitchen at Egerton Grove sch. for BC. (A) David Lesley (Contractors) Ltd., Tithebarn-st., Liverpool 2.

WEST HARTLEPOOL.—16 old people's flatlets at Owton Manor estate for TC. (A) G. M. Pearson & Son, Front-st., Hatton, Co. Durham, £12,822.

WETFORD-ON-AVON.—Six garages, 15 houses, six bungalows, a sewer and a road for Stamford RDC. (A) S. W. Slaughter & Co., £35,349.

WHITTLESEY.—22 'Homeville' houses at Eastfield-dri. for UDC. (A) L. Peat, Chatteris.

FEDERATION OF MASTER BUILDERS

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We have examined the records of the Federation of Master Builders Ltd., and we hereby certify that the total membership of the Federation at 31st December, 1959, including approved applications but excluding any members whose subscriptions are unpaid for 1959, was

11,223

Barsham, Nixon & Hamilton,
Chartered Accountants.
April 19th, 1960.
1, Lincoln's Inn Fields, London, W.C.2.

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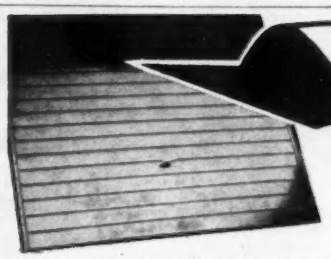

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ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

CONTRACTS

CORNWALL
COUNTY COUNCIL.

CAMBORNE FIRE STATION.

Notice is hereby given of the intention to let separately the Sub-Contracts for (a) HEATING, HOT WATER and VENTILATION INSTALLATIONS, and (b) ELECTRICAL SERVICES.

Applications are invited for permission to submit a FIXED-PRICE TENDER for these Sub-Contracts and should be made to the County Architect, County Hall, Truro, not later than MONDAY, 23rd MAY, 1960, from which a selected number of firms will be invited to tender. The closing date for receipt of tenders will be notified when the documents are despatched.

The lowest or any tender will not necessarily be accepted nor will the County Council pay to Contractors any fees or expenses incurred in the preparation of a tender.

E. T. VERGER,
Clerk of the County Council.

County Hall,
Truro.
5th May, 1960.

NEWCASTLE
REGIONAL HOSPITAL BOARD.

PRUDHOE AND MONKTON HOSPITAL

A major expansion programme is being carried out at this hospital, the work being divided into four consecutive phases each lasting approximately 18 months. In the third phase it is proposed to erect the following buildings in two separate contracts :—

(A) First Contract, under the direction of P. H. Knighton, M.B.E., A.R.I.B.A., Regional Architect.

(i) ONE SINGLE-STOREY 60-BED VILLA ; brick, slated roof, floor area approximately 16,000 feet super.

(ii) ONE SINGLE-STOREY 40-BED VILLA ; brick, slated roof, floor area approximately 9,000 feet super.

(iii) TWO-STOREY EXTENSION TO EXISTING NURSES' HOME ; brick, slated roof, floor area approximately 8,000 feet super.

(B) Second Contract, under S. W. Milburn & Partners, Chartered Architects, Sunderland, in conjunction with the Regional Architect.

(i) FOUR TWO-STOREY 25-BED VILLAS ; brick, slated roof, total floor area approximately 20,000 feet super.

(ii) ONE SINGLE-STOREY 30-BED VILLA ; brick, slated roof, floor area approximately 7,000 feet super.

(iii) A TWO-STOREY SCHOOL ; steel-framed construction, with felt-covered timber flat roof, floor area approximately 25,000 feet super.

(iv) TWO TWO-STOREY HOUSES for Medical staff.

Tender documents available in May or early June, 1960. Building work expected to start in September, 1960.

Contractors wishing to tender should apply to the Secretary of the Board, Benfield-road, Newcastle upon Tyne, 6, not later than 18th MAY, 1960, stating in which contracts they are interested. A limited number of contractors may be selected to tender.

READING
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

FIRM PRICE TENDERS are invited for the CONVERSION OF TWO SHOPS INTO TWO 2-BEDROOM FLATS, Southcote Farm-lane, Reading. General Conditions may be inspected, and Specification and drawings obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by NOON, 10th JUNE, 1960. No Tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

CHERTSEY
URBAN DISTRICT COUNCIL.

CONTRACT 66A—6 HOUSES : BROOMFIELD-ROAD, NEW HAW.
CONTRACT 66B—4 HOUSES : FORDWATER-ROAD, CHERTSEY.

TENDERS are invited for the CONSTRUCTION OF 10 HOUSES at the above-mentioned sites, together with site works. Contractors may tender for either one or both Contracts. Tender documents may be obtained from the Engineer and Surveyor, "The Orchard," Staines-lane, Chertsey, where also the drawings may be inspected on payment of two guineas deposit.

Tenders must be delivered to the undersigned not later than NOON on 3rd JUNE, 1960.

A. REX HERBERT,
Clerk of the Council.

Council Offices,
Chertsey,
Surrey.

BRAINTREE & BOCKING
URBAN DISTRICT COUNCIL.

ERECTION OF HOUSES AND FLATS.

TENDERS are invited on a FIXED PRICE BASIS for the ERECTION OF THE FOLLOWING DWELLINGS together with all ancillary works.

Contract No. 23 : 29 HOUSES, OUTBUILDINGS, SCREEN WALLS AND 4 GARAGES.

Contract No. 24 : 16 HOUSES, 8 FLATS, OUTBUILDINGS, SCREEN WALLS AND 7 GARAGES.

Bills of Quantities and forms of Tender may be obtained from the Surveyor, Town Hall, Braintree, upon payment of a deposit of £2 2s. per contract which will be refunded upon receipt of a bona fide Tender, together with all documents. Plans and detailed drawings may be inspected at the Surveyor's Department during normal office hours.

Tenders are to be returned separately in the envelope provided, appropriately endorsed.

The Bills of Quantities are to be returned in the envelope provided.

All documents must be delivered to the undersigned at the Town Hall, Braintree, before NOON on FRIDAY, the 3rd JUNE, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

W. BALSON,
Clerk of the Council.

RUGBY BOROUGH.

ERECTION OF 16 TWO-STOREY FLATS.

The Corporation invite TENDERS for the ERECTION OF 16 TWO-STOREY FLATS (for aged persons) on the Featherbed-lane portion of the Abbots Farm Estate. The flats are to be built in two blocks of eight one-bedroom-type flats.

Tender form and Bill of Quantities may be obtained from the Borough Surveyor's Department, Burford House, Rugby, on payment of a deposit of £2 2s. 0d. which will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

Tenders in the envelope provided must be delivered to the undersigned at "The Lawn," Newbold-road, Rugby, by FIRST POST on 13th JUNE, 1960. The Corporation do not undertake to accept the lowest or any Tender.

T. L. DUFFY,
Town Clerk.

HEREFORD CITY

ERECTION OF GARAGES.

TENDERS are invited for the ERECTION AND COMPLETION OF 116 GARAGES on the following sites within the City of Hereford :

1. Cagebrook-avenue, New Hunderton, 13 GARAGES.
2. Golden Post, New Hunderton, 30 GARAGES.
3. Belmont-road, New Hunderton, 28 GARAGES.
4. Mansbridge, Portfields, 28 GARAGES.
5. Canonmoor-street, Portfields, 17 GARAGES, including 6 commercial garages.

Contractors may submit Tenders for one or more of the above schemes. A separate Tender must be submitted for each scheme and each Tender will be considered separately.

Plans, Specification and Forms of Tender may be obtained from Norman Roberts, A.R.I.B.A., City Architect, Town Hall, Hereford, upon deposit of £1 1s. for each scheme.

Deposits are returnable following the submission of bona fide Tenders.

Tenders must be returned, each in its own envelope and endorsed with the name of the Contract, to reach the undersigned not later than 12 noon on MONDAY, the 30th day of MAY, 1960.

The lowest or any tender will not necessarily be accepted.

T. B. FELTHAM,
Town Clerk.

Town Hall,
Hereford.

READING
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

FIRM-PRICE TENDERS are invited for SUNDRY ALTERATION WORKS at George Palmer School, Basingstoke-road, Reading. General Conditions may be inspected and Bills of Quantities and Drawings obtained from the Borough Architect, Town Hall, Reading, on application to him accompanied by a cheque for two guineas (made payable to the Reading Corporation) which will be refunded on receipt of a bona fide tender, not subsequently withdrawn. Tenders to Town Clerk, Town Hall, Reading, by noon, MONDAY, 13th JUNE, 1960. No tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

BOURNEMOUTH
COUNTY BOROUGH.

TO SPECIALIST SUB-CONTRACTORS.

TENDERS are invited on a Fixed-Price basis for SPECIALIST SUB-CONTRACT WORK FOR THE EXTENSIONS to St. Michael's School, West Hill-road, Bournemouth, as follows :

(a) CENTRAL HEATING CIRCUIT AND HOT AND COLD WATER INSTALLATION.
(b) ELECTRICAL INSTALLATION.
(c) COPPER ROOFING.

Firms wishing to tender for these sub-contracts should make application, in writing, to the Borough Architect, Room 106, Town Hall, Bournemouth, not later than 18th MAY, 1960.

Tenders to be received by me not later than 10 a.m., 1st JUNE, 1960.

A. LINDSAY CLEGG,
Town Clerk.

ALCESTER
RURAL DISTRICT COUNCIL.

TENDERS FOR HOUSES AND BUNGALOWS, SALFORD PRIORS.

Fixed Price TENDERS are invited for the ERECTION OF THE FOLLOWING :
10 HOUSES.
8 BUNGALOWS.

Under the Council's Architects, Messrs. F. B. Andrews and Son, 95 Colmore-row, Birmingham.

Applications for drawings and bills of quantities to be made to the Surveyor, Council Offices, Alcester, not later than the 19th MAY, 1960, with a payment of a deposit of 2 guineas, which will be refunded on receipt of a bona fide Tender (cheques to be made payable to the Alcester Rural District Council).

Tenders in plain envelopes endorsed "Tender—Erection of Houses and Bungalows, Salford Priors" must reach the undersigned not later than 12 NOON on the 8th JUNE, 1960.

J. F. SMITH,
Clerk of the Council.

7th May, 1960.

SURREY
COUNTY COUNCIL.

TENDERS FOR PROPOSED ADAPTATIONS AND EXTENSIONS AT GUILDFORD, SANDFIELD COUNTY PRIMARY SCHOOL.

The work consists of the ADAPTATION OF PART OF THE OLD PRIMARY SCHOOL AS A NURSERY SCHOOL, and a SINGLE-STOREY EXTENSION TO THE KITCHEN AND LAUNDRY.

Contractors wishing to tender should apply to the County Architect, County Hall, Kingston-upon-Thames, by 18th MAY, 1960.

GILLINGHAM
BOROUGH.

STRATFORD ESTATE : STAGE III.
20 HOUSES AND 12 GARAGES.

FIXED PRICE TENDERS are invited for the ERECTION OF 20 HOUSES AND 12 GARAGES at Henley-close, Rainham, Kent.

Persons desirous of tendering may obtain copies of the Bills of Quantities, Specification and Form of Tender, and may inspect the drawings and Conditions of Contract at the Borough Engineer's Department during usual office hours on and after 11th MAY, 1960.

Applications should be accompanied by a cheque for five guineas (£5 5s. 0d.) made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona fide Tender not subsequently withdrawn.

Tenders in sealed envelopes supplied and endorsed "Tender for Stratford Estate Stage III." must be delivered to the undersigned by not later than 12 NOON on FRIDAY, 3rd JUNE, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham,
Kent.
27th April, 1960.

CARDIFF CITY.
CITY ARCHITECT'S DEPARTMENT.

PROPOSED SUB-DIVISIONAL POLICE STATION, ELY.

Fixed Price TENDERS are invited for the CONSTRUCTION OF A NEW SUB-DIVISIONAL POLICE STATION at Cowbridge-road West, Ely, Cardiff.

The works comprise a three-storey block and a single-storey block of living accommodation, basement and external works.

Conditions of Contract, Drawings and Specifications may be inspected at the City Architect's Department, 12 Park-place, Cardiff.

Specifications, Bills of Quantities and Form of Tender may be obtained from the City Architect to whom application should be made, accompanied by a deposit of £2 2s. 0d. Cheques should be made payable to the Cardiff Corporation and crossed "Not negotiable and Co." The deposit will be refunded on receipt of a bona fide Tender or the return of the contract documents.

Tenders will not be considered unless enclosed in the envelope provided and endorsed "Tender for Sub-Divisional Police Station—Ely" addressed to the Town Clerk at the City Hall, Cardiff, and sent by Registered Post, so as to be received not later than the 15th JUNE, 1960.

The envelope must not bear the name of or any mark indicating the identity of the Tenderer.

Completed Bills of Quantities must not be submitted with the Tender but must be sent, completed in ink, so as to be in the hands of the City Architect within three days after written request following the opening of Tenders.

The Council does not bind itself to accept the lowest or any Tender.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

BRADFORD CITY.

ERECTION OF 24 BUNGALOWS.

TENDERS are invited for the ERECTION OF 24 BUNGALOWS with necessary site works at Westfield Lane, Wyke, Bradford.

Drawings and Condition of Contract may be examined at the offices of the City Engineer and Surveyor, Town Hall, Bradford.

Bills of Quantities and Form of Tender may be obtained from the above office on payment of a deposit of two guineas, returnable on receipt of a bona fide Tender.

Tenders in plain sealed envelopes endorsed "Tender for 24 Bungalows at Wyke," together with Bills of Quantities priced in ink in a separate envelope with Tenderer's name thereon, are to be delivered to the undersigned not later than NOON on MONDAY, the 20th JUNE, 1960.

HENRY PATTEN,
Town Clerk.

Town Hall,
Bradford, 1.

BIRMINGHAM CITY

TO BUILDING CONTRACTORS.

CONTRACT 703.
4 SHOPS AND DWELLINGS OVER, WINDSOR-STREET, NECHELLS GREEN (UNIT 11).

CONTRACT 730 (A-C).
20 DWELLINGS, HANDSWORTH AND KINGSTANDING.

CONTRACT 730 (S-U).
16 DWELLINGS, HARBORNE AND NORTHFIELD.

The House Building Committee invite FIRM PRICE TENDERS for the ERECTION of the above.

Bills of Quantities and Forms of Tender will be forwarded on payment of £2 2s. for each contract at the office of A. G. Sheppard Fidler, City Architect, Civic Centre, Birmingham, 1, to whom all cheques should be made payable. Applications should be made by 17th MAY, 1960. Conditions of Contract (which include the usual Fair Wages and Conditions of Labour Clause) may be seen at the City Architect's Office during normal working hours.

The deposits will be returned on receipt of bona fide tenders or on notification of inability to tender, together with the return of the documents not later than three days before the date for receipt of tenders.

Tenders, enclosed in the envelopes provided for the purpose, must be sealed and delivered to the Town Clerk's Office (Room No. B.31), Council House, Birmingham, 1, NOT LATER THAN 12 noon on THURSDAY, the 16th JUNE, 1960. Tenders received after that time will be rejected.

The Committee do not bind themselves to accept the lowest or any tender.

T. H. PARKINSON,
Town Clerk.

The Council House,
Birmingham, 1.

BEDFORDSHIRE
EDUCATION COMMITTEE.

PROPOSED COUNTY PRIMARY INFANTS' SCHOOL, SUNDON PARK.

Building Contractors who wish to be considered to TENDER on the basis of a Fixed Price Contract for the ERECTION OF THIS SCHOOL should apply, giving details of similar contracts recently carried out, to the County Architect, Shire Hall, Bedford, by 23rd MAY, 1960.

The school will comprise SIX CLASSROOMS, ASSEMBLY HALL, SANITARY ACCOMMODATION, STAFF ROOMS, STORAGE, etc., and will be constructed of load-bearing brickwork with steel frame Assembly Hall.

The total superficial floor area being 10,900 sq. ft. (approximate cost £40,000).

Bills of Quantities will be issued to the Contractors selected to tender.

Heating Engineers and Electrical Contractors are also invited to submit their names by the above date for consideration to tender for the undermentioned Sub-Contracts for this school:

(a) ENGINEERING SERVICES.
(b) ELECTRICAL INSTALLATION.

The Committee does not bind itself to accept the lowest or any Tender.

BOURNEMOUTH
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

TENDERS are invited, on a "Fixed Price" basis, for the ERECTION OF A YOUTH CLUB at East Howe Girls' Secondary School.

Specification and Tender Forms obtainable from, and Conditions of Contract and Drawings inspected at, the Borough Architect's Office (Room 106), Town Hall, Bournemouth, on payment of a deposit of one guinea, refundable on receipt of a bona fide Tender not subsequently withdrawn, and the return of all documents supplied.

Tenders to be received by me not later than 10 a.m 7th JUNE, 1960.

A. LINDSAY CLEGG,
Town Clerk.

WOKINGHAM
BOROUGH.

ERECTION OF DWELLINGS.

TENDERS are invited for the ERECTION OF 57 DWELLINGS AND 9 GARAGES in traditional construction on Norreys Barn Housing Estate, Wokingham.

Plans, specifications, etc., may be obtained from the Borough Surveyor, Town Hall, Wokingham, on payment of deposit of £2 2s., returnable on submission of bona fide tender.

Tenders must be sent to me, in the envelope provided, not later than 3rd JUNE, 1960.

L. GODDARD SMALLEY,
Town Clerk.

Town Hall,
Wokingham,
Berks.
6th May, 1960.

WOKINGHAM
BOROUGH.

ROAD WORKS.

TENDERS are invited for the CONSTRUCTION OF ROADS, FOOTPATHS, SURFACE WATER SEWERS and all appurtenant works connected with a scheme for the erection of 57 houses on Norreys Barn Housing Estate, Wokingham.

Full details, plans and specifications may be obtained from the Borough Surveyor on payment of a deposit of £2 2s. returnable on submission of a bona fide tender.

Tenders must be sent to me not later than 3rd JUNE, 1960.

L. GODDARD SMALLEY,
Town Clerk.

Town Hall,
Wokingham,
Berks.
6th May, 1960.

ESSEX
COUNTY COUNCIL.

COLCHESTER
CIVIL DEFENCE CENTRE.

Contractors wishing to submit a FIRM-PRICE TENDER for the ERECTION of the above, in traditional construction, should forward their names, from which a panel will be chosen and provided with Bills of Quantities.

The estimated cost of the contract is £9,000.

Applications to reach the undersigned not later than 21st MAY, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

SURREY
COUNTY COUNCIL.

HIGHWAYS AND BRIDGES DEPARTMENT, invite TENDERS for CONSTRUCTION OF SPRAY PAINTING SHOP with brick walls and precast concrete roof units (floor area 700 sq. ft. approximately) and ancillary works at "Cold Blow" Vehicle Repair Depot, Banstead. Particulars and forms of tender returnable by 28th MAY, 1960, obtainable from County Engineer, County Hall, Kingston-upon-Thames.

CATERHAM AND WARLINGHAM
URBAN DISTRICT COUNCIL.

DEMOLITION OF THREE COTTAGES AND ERECTION OF A PAIR OF HOUSES.

TENDERS are invited for the DEMOLITION OF THREE COTTAGES, Nos. 11-15 Nelson-road, Caterham and the ERECTION OF A PAIR OF HOUSES.

Plans, specification and form of Tender may be obtained on application from the Engineer and Surveyor, Council Offices, Caterham.

Tenders enclosed in the endorsed envelope provided are to be returned to the undersigned not later than 4 p.m. on TUESDAY, 7th JUNE, 1960.

B. J. SMERDON,
Clerk of the Council.

Council Offices,
Caterham.

FELTHAM
URBAN DISTRICT COUNCIL.

EXTENSION TO MORTUARY—SUNBURY-ROAD, FELTHAM.

TENDERS are invited for the EXTENSION OF THE ABOVE BUILDING.

Drawings and Bills of Quantities, Form of Tender and General Conditions of Contract may be obtained from L. J. Grimshaw, A.M.I.C.E., L.R.I.B.A., M.I.Mun.E., A.M.T.P.I., Lynton House, Hanworth-road, Feltham, on payment of a deposit of £2 2s., which will be refunded on receipt of a bona fide Tender together with the return of all loaned documents.

Tenders, in plain sealed envelopes endorsed "Extension to Mortuary," addressed to the Clerk of the Council, Council Offices, Feltham, must be returned on or before MIDDAY, WEDNESDAY, 8th JUNE, 1960.

M. W. COUPE,
Clerk of the Council.

9th May, 1960.

LEICESTER
ADMINISTRATIVE COUNTY.

Contractors with adequate facilities to complete in a limited period, invited to TENDER on a FIRM PRICE BASIS for RE-SERVICING OF ATHLETICS TRACK at Loughborough Training College. Applications for specifications to be made to County Architect, 123 London Road, Leicester, by 23rd MAY, 1960. Deposit £2 2s., returnable on receipt of a bona fide Tender. Tenders to be returned not later than 12 NOON, 13th JUNE, 1960.

STAFFORDSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.
APPROVED LIST OF CONTRACTORS.

The County Council have approved lists of Contractors for Building, Electrical, Heating and Maintenance work.

Contractors desirous of being added to one or more of these lists should write for forms of application to the County Architect, Green Hall, Lichfield-road, Stafford, not later than 21st MAY, 1960.

Contractors already on the Approved Lists do NOT have to make further application.

T. H. EVANS,
Clerk of the County Council.

BISHOP'S STORTFORD
URBAN DISTRICT COUNCIL.

TENDERS are invited for the ERECTION OF 12 TRADITIONAL FLATS. 12 GARAGES and incidental works at Parsonage-lane, Bishop's Stortford. Drawings and Conditions of Contract may be inspected at the Office of the Engineer and Surveyor.

Documents and Form of Tender may be obtained from the Engineer and Surveyor upon application accompanied by a deposit of Two Guineas which will be refunded on receipt of a bona fide Tender not subsequently withdrawn. Tenders must be returned in the envelope provided so as to reach the undersigned before NOON on SATURDAY, 9th JULY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

G. NORMAN DRINKWATER,
Clerk of the Council.

The Council House,
Bishop's Stortford.

ESSEX
COUNTY COUNCIL.

COLCHESTER COUNTY HIGH SCHOOL FOR GIRLS.
TWO ADDITIONAL CLASSROOMS.

Contractors wishing to submit a FIRM PRICE TENDER for the ERECTION OF THE ABOVE should forward their names, from which a panel will be chosen and provided with drawings and specification which will be available at the end of MAY, 1960.

The work consists of two additional classrooms and cloakroom in timber construction, estimated cost £3,500.

Applications to reach the undersigned not later than 21st MAY, 1960.

H. CONOLLY,
C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

PORTSMOUTH CITY

TENDERS, based on Bills of Quantities, are invited for :—

(a) PROPOSED BOOKING OFFICE, RESTAURANT, SNACK BAR and PUBLIC CONVENIENCE, I.O.W. Car Ferry.

(b) Rock Garden Pavilion: EXTENSIONS.

Contractors desirous of tendering should apply for documents to the City Architect, 1 Western-parade, Portsmouth, not later than the 23rd MAY, 1960, stating in which Contract(s) they are interested, and enclosing a deposit of £1 for each Contract returnable on receipt of bona fide Tender(s) or the return of all the documents within three days.

The Council do not bind themselves to accept the lowest or any Tender. It is a condition of tendering that the Contractor shall at the date of his tender have in his employment not less than one indentured apprentice to every eight craftsmen who were employed by him on the previous 1st January.

V. BLANCHARD,
Town Clerk.

SUTTON AND CHEAM
BOROUGH.

TENDERS are invited for the INTERNAL PLASTERING OF THE WALLS OF THE SCULLERIES AND LARDERS and the REDECORATIONS FOLLOWING TO 121 HOUSES in the Corporation's Housing Estate at Worcester Park, Surrey.

Specifications, Conditions and Forms of Tender can be obtained from the Housing Manager, 24 Cheam-road, Sutton, on payment of £1 1s. deposit, which will be returned on receipt of a bona fide tender.

Tenders, which may be accepted wholly or in part, must be addressed and delivered to the undersigned in a plain envelope, endorsed "Plastering" but otherwise unmarked, by the first post on 27th MAY, 1960.

The Council does not bind itself to accept the lowest or any Tender.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
High-street,
Sutton,
Surrey.

SWANSEA
COUNTY BOROUGH.

TO BUILDERS.

TENDERS are invited for the ERECTION OF 17 MAISONETTES AND 6 SHOPS at Lyfatty.

Drawings of the works and General Conditions of Contract may be inspected at the office of the Borough Architect, The Guildhall, Swansea. Builders desiring to tender must deposit the sum of Two Pounds with the Borough Architect on or before the 31st day of MAY, 1960.

Bills of Quantities, when available, will be issued only to those builders who make the said deposit which will be refunded after delivery of a bona fide Tender (not subsequently withdrawn) and the return of all documents.

Tenders must be delivered in exchange for a receipt or sent by registered post so as to reach me on or before the date stated in the Form of Tender and in accordance with the directions issued.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

The Guildhall,
Swansea.
4th May, 1960.

HARROW
BOROUGH.

RENEWAL OF FENCES, ETC.

TENDERS are invited for the REPLACEMENT OF BOUNDARY AND GARDEN FENCES, SIDE ENTRANCE GATES AND CLOSE BOARDED SCREENS on the Corporation's Pinner-hill Estate, Pinner, and the Berridge Estate, Edgware.

Conditions of Contract may be inspected at the office of, and a copy of the Forms of Tender and Specification obtained on application to, the Borough Engineer and Surveyor, Council Offices, "Cottesmore," 48 Uxbridge-road, Stanmore, Middlesex, upon payment of Two Pounds, by crossed cheque for each Tender, made payable to the Harrow Corporation, and returnable where a bona fide Tender reaches me within the prescribed time.

Tenders, on the prescribed form, are to be enclosed in plain sealed envelopes, bearing no indication or mark of the sender and carrying the label provided, suitably endorsed, and delivered to my office, not later than 10 a.m. on TUESDAY, 31st MAY, 1960.

The Corporation does not bind itself to accept the lowest, or any, Tender.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge-road,
Harrow Weald,
Middlesex.

Pointing the way...
TO CONSTANT ACCURACY IN PROPORTIONING AND LOWEST CONCRETE PRODUCTION COSTS

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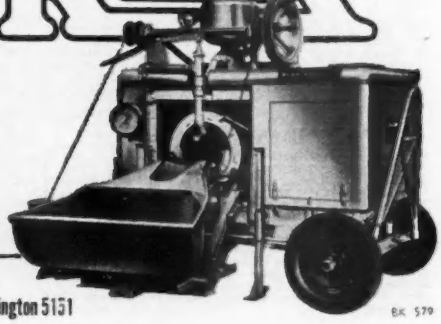

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Semtex present Vertilex Decorative Wall Tiles—a colourful new wall covering that's specially designed to meet the demands of a wide and varied market. These tiles are not only exceptionally practical and hard-wearing, they also provide a wonderful means of creating attractive, contemporary interiors by bringing more lasting colour to industrial and trade premises, public buildings and the home.

Vertilex is made of thin gauge, vinyl materials that retain their attractive high-gloss upper surface indefinitely. They afford the maximum hygiene, require the minimum maintenance and are resistant to oils, fats and most chemicals in everyday use. These tiles are simple and speedy to clean—just polish them lightly with a damp cloth. What's more, they are highly flexible and easy to fix. Available in 13 decorative colours.

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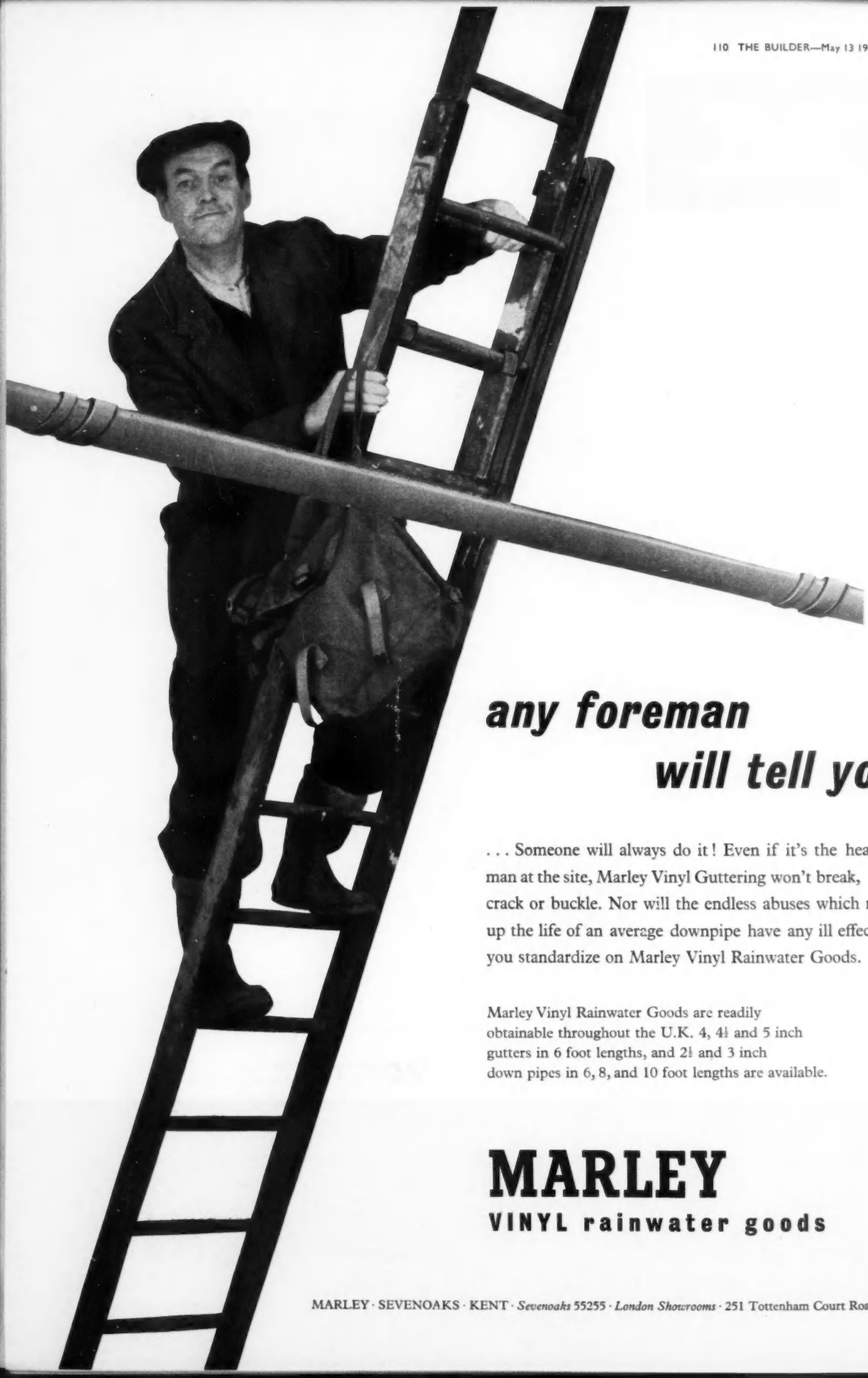

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ALTRINCHAM
BOROUGH.

EXTERNAL PAINTING OF 174 COUNCIL HOUSES.

Separate TENDERS are invited for EXTERNAL PAINTING TO SIX GROUPS OF HOUSES containing 12 to 43 Houses each.

Specification, General Conditions and Form of Tender may be obtained from the Borough Surveyor, Town Hall, Altrincham.

Tenders in the envelope provided are to be returned to the undersigned by NOON, FRIDAY, 27th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

E. GRAHAM THOMAS,
Town Clerk.

Town Hall,
Altrincham.
4th May, 1960.

SALFORD CITY.

PROPOSED PUBLIC TOILETS AT ORDSALL PARK, TRAFFORD-ROAD, SALFORD, 5.

Firm price TENDERS are invited for the proposed PUBLIC TOILETS at Ordsall Park, Salford, 5.

Conditions of Contract and Drawings may be inspected at, and Bill of Quantities and Form of Firm Price Tender obtained from, the City Engineer and Surveyor's Department, Town Hall, Salford, 3, on payment of a deposit of £2 2s. 0d. which will be returned on submission of a bona fide Firm Price Tender not subsequently withdrawn.

Firm Price Tenders on the prescribed form, sealed in the envelope provided and bearing no other mark or identification, must be forwarded to the undersigned so as to be received not later than 12 NOON on MONDAY, 13th JUNE, 1960.

The Council does not bind itself to accept the lowest or any Firm Price Tender.

R. RIBBLESDALE THORNTON,
Town Clerk.

GILLINGHAM
BOROUGH.

TWYDALL HAWTHORNE ESTATE. 62 FLATS.

FIXED-PRICE TENDERS are invited for the ERECTION OF 1 BLOCK OF 62 FLATS in four storeys comprising of 28 two-bedroom, 34 one-bedroom flats, outbuildings and 44 car ports at Goudhurst-road, Gillingham, Kent.

Persons desirous of tendering may obtain copies of the Bill of Quantities, Specification and Form of Tender, and may inspect the drawings and Conditions of Contract at the Borough Engineers' Department during usual office hours on and after 16th MAY, 1960.

Applications should be accompanied by a cheque for five guineas (£5 5s.) made payable to Gillingham Corporation. This sum will be refunded on the receipt of a bona fide tender not subsequently withdrawn.

Tenders in sealed envelopes supplied and endorsed, "Tender for Goudhurst-road Flats," must be delivered to the undersigned by not later than 12 noon on FRIDAY, 17th JUNE, 1960.

FRANK HILL,
Town Clerk.

Municipal Buildings,
Gillingham,
Kent.
27th April, 1960.

TWICKENHAM
BOROUGH.

NEW SALVAGE STORE at Charlton Refuse Disposal Works, Shepperton. TENDERS are invited for the ERECTION OF A SINGLE-STOREY BUILDING, 13 ft. by 39 ft. by 17 ft. high together with ancillary road works. Contractors desiring to be considered for inclusion in the list of tenderers should forward their names and addresses, together with a deposit of £2 2s. (returnable on receipt of a bona fide Tender or non-inclusion in the list), to the Borough Engineer, Municipal Offices, Twickenham, not later than FRIDAY, 20th MAY, 1960. Drawings, Specification, Form of Tender and Conditions will be forwarded to the selected Contractors. The Corporation do not bind themselves to accept the lowest or any Tender.—W. H. JONES, Town Clerk, Municipal Offices, Twickenham.

ESSEX
COUNTY COUNCIL.

BRENTWOOD TEACHERS' TRAINING COLLEGE.

Contractors wishing to TENDER for the ERECTION OF THE ABOVE should forward their names, from which a panel will be chosen and provided with Bills of Quantities. Only contractors with considerable experience in reinforced concrete work and who can complete the contract in 21 months need apply.

The building will be mainly three-storey with reinforced concrete frame, floors and roof, brickwork cladding and exposed aggregate facings, estimated cost £180,000.

Applications to reach the undersigned not later than 21st MAY, 1960.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.

County Hall,
Chelmsford.

SPALDING
RURAL DISTRICT COUNCIL.

DONINGTON SEWERAGE SCHEME CONTRACT NO. 1.

TENDERS are invited for the LAYING OF APPROXIMATELY 7,400 YARDS OF 6 IN., 9 IN. AND 12 IN. DIAMETER SEWERS, 2,200 YARDS OF 4 IN. AND 9 IN. DIAMETER RISING MAINS, the CONSTRUCTION OF THREE SEWAGE PUMPING STATIONS, and a COMPLETE SEWAGE DISPOSAL WORKS for the village of Donington in the Spalding Rural District of Lincolnshire.

Contractors wishing to Tender should apply to the Council's Consulting Engineers, J. H. Haiste & Partners, 44-46 Bridge-street, Peterborough, enclosing a deposit cheque value Three Guineas made payable to the Spalding Rural District Council, such deposit to be refunded on receipt of a bona fide Tender and the return of the documents.

Drawings may be inspected at either the Council offices, or the Consulting Engineer's office.

Tenders should be submitted to the undersigned not later than 12 NOON on MONDAY, 30th MAY, 1960.

The Council do not bind themselves to accept the lowest or any Tender.

G. S. ASHWORTH,
Clerk of the Council.

Council Offices,
Priory-road,
Spalding,
Lincolnshire.

HARROW
BOROUGH.

LONGFIELD COUNTY PRIMARY SCHOOL.

DUKES-AVENUE, NORTH HARROW.

TENDERS are invited for the REBUILDING OF THE PARAPET WALLS TO EAST AND NORTH WINGS together with the RENEWAL OF ASPHALT ROOF AND SKIRTINGS and incidental works thereto.

Conditions of Contract may be inspected at the office of, and a copy of the Form of Tender and Specification obtained on application to, the Borough Engineer and Surveyor, Council Offices, "Cottesmore," 48 Uxbridge-road, Stanmore, Middlesex, upon payment of Two Pounds by crossed cheque, made payable to the Harrow Corporation and returnable where a bona fide tender reaches me within the prescribed time.

Tenders, on the prescribed form, to be enclosed in a plain sealed envelope bearing no indication or mark of the sender and carrying the label provided, suitably endorsed, to be delivered to my Office not later than 10 a.m. on TUESDAY, 7th JUNE, 1960.

The Council do not bind themselves to accept the lowest, or any, Tender.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
92 Uxbridge-road,
Harrow,
Middx.

WATFORD
BOROUGH.

MERIDEN ESTATE, WATFORD.

TENDERS are invited for the ERECTION OF 52 TRADITIONAL HOUSES AND 28 GARAGES on the Meriden Estate, Watford.

Applications for documents, accompanied by a deposit of £3 3s. 0d. which will be returned on receipt of a bona fide Tender not subsequently withdrawn, must be made to Mr. F. C. Sage, Borough Engineer and Surveyor, Town Hall, Watford, not later than 2 p.m. on 25th May, 1960.

Tenders must be delivered to the undersigned on the official form and enclosed in the envelope provided, not later than 2 p.m. on THURSDAY, 30th JUNE, 1960.

The Council does not bind itself to accept the lowest or any Tender.

GORDON H. HALL,
Town Clerk.

Town Hall
Watford.

THE WEST RIDING OF
YORKSHIRE
COUNTY COUNCIL.

TENDERS are invited for the ADAPTATIONS TO FORM BRANCH LIBRARY AND CLINIC at the Carlile Institute, Meltham.

Plans and Specifications are now available for inspection at the office of the Divisional Architect, Flint-street, Huddersfield.

Application for specification and tender documents should be made to the Divisional Architect, and received not later than the 30th MAY, 1960.

The Contract will be governed by the R.I.B.A. Form of Agreement (as adapted for the use of local authorities) where quantities do not form part of the contract.

Sealed tenders must be addressed to me, the undersigned and received at Room 3, County Hall, Wakefield, not later than 12 NOON on the 13th JUNE, 1960.

BERNARD KENYON,
Clerk of the County Council.

STEPNEY
M.B.C.

SMITHY-STREET HOUSING SCHEME.

TENDERS are invited for:

TWO PASSENGER LIFTS IN 9-STOREY BLOCK OF 52 FLATS. Forms of tender, with conditions, etc., obtainable from Messrs. Riches & Blythin, 16 Northumberland-avenue, W.C.2, as from 16th MAY, 1960, on deposit of £2 2s. Cheques to be made payable to Stepney Borough Council.

Closing date for tenders—NOON, MONDAY, 30th MAY, 1960.

WILFRED REEVE,
Town Clerk.

STRETFORD
BOROUGH.

ERECTION OF 12 FLATS, WINCHESTER-ROAD, STRETFORD.

The Town Council invites TENDERS for the ERECTION OF 12 TWO-STOREY FLATS, in three blocks, at their Barton-road Housing Scheme, Stretford. Prices on the alternative bases of "rise and fall" and "firm price" are required.

The Specification, Bills of Quantities, Form of Tender and other particulars may be obtained on application to Mr. A. H. Perry, Borough Surveyor, any day during office hours on payment of Two Guineas, which deposit will be repaid after receipt of a bona fide Tender.

Tenders are due at the Town Hall by FIRST POST on SATURDAY, 11th JUNE, 1960, and must be forwarded in the special envelope provided sealed and addressed to the undersigned, endorsed "Tender for Flats," and such envelope shall not bear any name or mark indicating the sender.

The lowest or any Tender will not necessarily be accepted.

C. TREWAVAS,
Town Clerk.

Town Hall,
Stretford.
10th May, 1960.

CHERTSEY
URBAN DISTRICT COUNCIL.

95 GARAGES AND SITE WORKS. CONTRACT 69.

TENDERS are invited for the SUPPLY AND ERECTION OF 95 CONCRETE PREFABRICATED GARAGES TOGETHER WITH SITE WORKS on various sites.

Tender documents may be obtained from the Engineer and Surveyor, "The Orchard," Staines-lane, Chertsey, Surrey, on payment of One Guinea deposit.

Tenders to be delivered to the undersigned not later than NOON on FRIDAY, 3rd JUNE, 1960.

A. REX HERBERT,
Clerk of the Council.

Council Offices,
Chertsey,
Surrey.

EASTBOURNE
COUNTY BOROUGH.

TO BUILDING CONTRACTORS.

SUN LOUNGE AND CAFE ON THE WISH TOWER SLOPES.

TENDERS are invited for the ERECTION OF THE ABOVE and for the RENOVATION OF THE WISH TOWER AND APPURTENANCES.

Applications for tendering documents must be delivered to the Borough Engineer, 2 and 4 Saffrons-road, Eastbourne, on or before the 24th MAY, 1960, and must be accompanied by a deposit cheque for £2 2s. payable to the Eastbourne Corporation, which will be returned on receipt of a bona fide Tender.

Tendering documents will be issued on the 31st MAY, 1960. No Tender will be considered unless it is sent in a plain sealed envelope, addressed to the undersigned, bearing the words "Wish Tower Scheme," but devoid of any name or mark indicating the sender. Tenders must be delivered not later than 12 NOON on the 22nd JULY, 1960.

The lowest or any Tender will not necessarily be accepted.

F. H. BUSBY,
Town Clerk.

Town Hall,
Eastbourne.
9th May, 1960.

EAST SUFFOLK
COUNTY COUNCIL.

COUNTY HALL, IPSWICH. EXTENSIONS.

The Council propose to invite FIRM-PRICE TENDERS from selected builders, for the ERECTION OF EXTENSIONS OF SOME 5,000 SQUARE FEET FLOOR AREA in light construction at third floor level over the existing buildings.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9 a.m. and 5 p.m.

Building Contractors wishing to tender should submit their names to the County Architect, County Hall, Ipswich, before the 24th MAY, 1960. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 31st MAY, 1960; builders not selected will be notified at the same time. Tenders are required by the 14th JUNE, 1960.

ATTENTION ADVERTISERS

Classified advertisements in this section can be accepted up to 12 o'clock noon on the TUESDAY prior to issue. It is regretted that advertisements cannot be accepted by telephone.

PUBLIC APPOINTMENTS

WELWYN GARDEN CITY & HATFIELD
DEVELOPMENT CORPORATIONS

invite applications for the appointment of an AREA MAINTENANCE SURVEYOR. Salary within the Grade A.P.T. II (£765 to £880 per annum), commencing according to age and experience.

Applicants must be competent Building Surveyors and have had experience in maintenance work to houses and supervision of redecoration contracts. Preference will be given to candidates who have passed Intermediate R.I.C.S. or other appropriate qualifications.

Duties include inspection and supervision of repairs and redecorations to houses, factories and other buildings; specification writing, Schedules of Dilapidations; Take-over and End of Defects Liability Period inspections to new houses. Superannuation; housing accommodation available.

Application forms may be obtained from: The General Manager Welwyn Garden City and Hatfield Development Corporations, Church-road, Welwyn Garden City, Herts, and must be returned not later than THURSDAY, 19th MAY, 1960.

OLDBURY
BOROUGH.

STONE-STREET AND LODGE-STREET DEVELOPMENT—PHASE 2.

The Council invite TENDERS on a FIXED PRICE BASIS for the ERECTION of 78 4-STOREY DWELLINGS AND 4 GARAGES, together with LANDSCAPE WALL and CONSTRUCTION OF DRYING AREAS.

Forms of Tender, Conditions of Contract and Bills of Quantities may be obtained from the Architects, Messrs. Wood & Kendrick & Williams, of 57 Colmore-row, Birmingham, upon payment of a deposit of £2 2s. This sum will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

Tenders must be submitted in the envelope provided, the envelope being duly sealed and bearing no name or mark indicating the sender. Tenders must be delivered to the Town Clerk's Office not later than 12 NOON on 4th JUNE, 1960.

The Corporation does not bind itself to accept the lowest or any Tender.

KENNETH PEARCE,
Town Clerk.

Municipal Buildings,
Oldbury.
May, 1960.

CUMBERLAND
COUNTY COUNCIL.

APPOINTMENT OF COUNTY ARCHITECT.

Applications are invited for the appointment of COUNTY ARCHITECT for the Administrative County of Cumberland.

Salary within the scale £2,550 (1 x £115); (2 x £110)-£2,885 per annum.

Application forms, together with further details, may be obtained from the undersigned to be returned not later than WEDNESDAY, 8th JUNE, 1960.

G. N. C. SWIFT,
Clerk of the County Council.

The Courts,
Carlisle.
10th May, 1960.

SOUTH SHIELDS
COUNTY BOROUGH.

QUANTITY SURVEYING ASSISTANTS.

Applications are invited for QUANTITY SURVEYING ASSISTANTS in the Borough Engineer's Department. Salary will be in accordance with Grades A.P.T./I/SS (£610-£1,070). Placing within these grades will be in accordance with experience.

Housing accommodation may be made available to successful applicants if necessary.

The successful applicants will be required to pass a medical examination for superannuation purposes.

Application forms can be obtained from the Borough Engineer's Department, Town Hall, South Shields, and should be returned by 10 a.m. on THURSDAY, 9th JUNE, 1960.

R. S. YOUNG,
Town Clerk.

BOROUGH of WATFORD

WATFORD is a pleasant, thriving town in South West Hertfordshire, in the Green Belt and with easy access to the open country. Although within easy reach of London it has a distinct civic consciousness and cultural educational, shopping and transport facilities are excellent.

The Corporation has a large number of projects in hand and envisaged, including Swimming Bath, Library extensions, multi-storey buildings, Flatted factories and housing and expansion of the Borough Engineer, Surveyor and Architect's Department is contemplated to handle these schemes.

Applications are invited from suitably qualified candidates for:—

(a) ASSISTANT ARCHITECT

Salary within Grade APT IV (£1,065—£1,220 per annum).

(b) ARCHITECTURAL ASSISTANTS

Salary within Grades APT II/III (£765—£1,065).

(c) ARCHITECTURAL ASSISTANT

Salary within Grades APT I/II (£610—£880).

The Assistant appointed to post (a) will be a Section Leader and will carry a considerable amount of responsibility.

Commencing salaries will be commensurate with experience and ability and Housing Accommodation will be provided for those requiring it.

Applications to be sent to the undersigned not later than 31st May, 1960.

F. C. SAGE, A.M.I.C.E., M.I.Mun.E., Reg. Architect, Borough Engineer, Surveyor and Architect.

Town Hall, Watford, Herts.

SOLIHULL
BOROUGH.

APPOINTMENT OF ASSISTANT ARCHITECT.

Applications are invited for a post as an ASSISTANT ARCHITECT in the Borough Surveyor's Department at a salary in accordance with A.P.T. Grade IV (£1,065-£1,220 per annum), commencing according to experience and qualifications.

Solihull has a population of approximately 90,000 and is still developing rapidly, there being a large programme of varied schemes in hand.

Housing accommodation will be provided as soon as possible and half removal expenses paid.

The appointment is subject to a satisfactory medical report, the provisions of the Local Government Superannuation Acts and the National Scheme of Conditions of Service, and to one month's notice on either side.

Applications, giving full particulars as to age and qualifications and present and past experience, together with the names and addresses of 2 referees should be submitted to the Borough Surveyor, 90 Station-road, Solihull, not later than 23rd MAY, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull.
27th April, 1960.

LONDON
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Vacancies exist at Grade III and Technical Assistant levels for BUILDER'S ESTIMATORS to price bills of quantities for major building projects. Up to £1,135 (now under review with probable maximum £1,250) according to experience.

Form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/1009/5A), County Hall, London, S.E.1.

HAYES & HARLINGTON
U.D.C.

ESTIMATOR required by Engineer and Surveyor's Department. Salary within Grade A.P.T. II, i.e. £765-£880 p.a. plus appropriate London "Weighting." Candidates must be capable of estimating for all classes of building works and have had considerable experience of work of this nature. Five-day week. The Council is unable to assist with the provision of housing accommodation. Further particulars and conditions of service and form of application available from the undersigned, which when completed must be returned by 30th MAY, 1960.

GEORGE HOOPER.
Clerk and Solicitor.

Town Hall,
Hayes,
Middx.

YORK CITY.

Applications are invited for the following permanent appointments:—

(a) ASSISTANT ARCHITECT (A.P.T. Grade IV, £1,065-£1,220 p.a.).

(b) JUNIOR ARCHITECTURAL ASSISTANT (General Division, £210-£595 p.a.).

Commencing salary in each case will be in accordance with experience and qualifications.

Applicants for (a) should be members of the R.I.B.A. and for (b) should be of General Certificate of Education standard.

In respect of appointment (a) the tenancy of a house, if considered necessary, may be offered for a period of 12 months in order that the successful applicant may be afforded time in which to obtain own accommodation.

Details of appointments and application forms may be obtained from the undersigned to whom completed forms must be returned not later than FIRST POST on 28th MAY, 1960.

E. FIRTH, F.R.I.B.A., A.M.T.P.I.,
City Architect.

8 St. Leonard's Place,
York.
May, 1960.

BIRMINGHAM
REGIONAL HOSPITAL BOARD.

ASSISTANT REGIONAL ARCHITECT.

Salary scale £1,825-£2,175. Qualification: Registered Architect by examination.

This is a newly established appointment. The successful candidate will be required to take charge of design teams engaged on the design of major hospital projects. The post is not restricted to those with previous hospital experience but a high standard of design ability is essential.

The post is superannuable. Five-day week. Generous annual leave.

Applications to Secretary, Birmingham Regional Hospital Board, 10 Augustus-road, Edgbaston, Birmingham, 15, by 30th MAY, 1960 stating qualifications, age, experience, present position and salary and names of two referees.

EAST HAM
COUNTY BOROUGH.

PRINCIPAL ASSISTANT PLANNING OFFICER—

Grade A.P.T. IV, £1,065-£1,220.

Vacancy in the Borough Engineer's Department. London Weighting paid in addition. Salary above minimum paid according to qualifications and experience.

Subsistence allowance may be paid over a reasonable period to person appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Details and application form from the Town Clerk, E.6.

Closing date 27th MAY, 1960.

METROPOLITAN
POLICE.

RECEIVER'S OFFICE
requires
ASSISTANT MAINTENANCE SURVEYOR.

Salary—£830 per annum at age 25 rising by annual increments to a maximum of £1,300 per annum. (Starting pay according to age. Maximum salary payable on entry—£1,125 per annum, being the age 34 point on the scale.)

Qualifications Required — Applicants must be registered Architects or have achieved Corporate membership of R.I.C.S. (Building Surveying Section).

Apply To—Chief Clerk (B), Architect and Surveyor's Department, New Scotland Yard, S.W.1.

WORCESTERSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPT.

Applications are invited for the post of SENIOR ARCHITECT, Grade A.P.T. IV (£1,065-£1,220 per annum).

Forms of application and further particulars should be obtained from L. C. Lomas, F.R.I.B.A., County Architect, 14 Castle-street, Worcester, not later than 20th MAY, 1960. (Y.265.)

ROCHDALE
COUNTY BOROUGH.

BOROUGH SURVEYOR'S DEPARTMENT.

Applications are invited from suitably qualified persons for the post of QUANTITY SURVEYOR on Special Classes Scale (£785-£1,070 p.a.).

The Corporation make 100 per cent loans for house purchase in approved cases.

Applications stating age, qualifications, experience and names of 2 referees to Borough Surveyor, Town Hall, Rochdale, by 27th MAY.

Canvassing will disqualify. Relationship to any member or senior official of the Council must be disclosed. Appointment subject to medical examination.

METROPOLITAN
POLICE.

RECEIVER'S OFFICE
reqoires
SANITARY ENGINEERING DRAUGHTSMEN
for interesting and varied work in connection with
POLICE HOUSING AND NON-HOUSING BUILDING PROGRAMMES.

£570 p.a. at age 21 rising by annual increments to a maximum of £905 p.a.

Starting pay according to age. Maximum age entry point—£783 p.a. (age 28).

Applicants to have Ordinary National Certificate as a minimum qualification. Previous experience on similar work would be considered an advantage.

Apply in writing to:
Room 578 (B),
Receiver's Office,
New Scotland Yard,
S.W.1.

BIRMINGHAM
REGIONAL HOSPITAL BOARD.

QUANTITY SURVEYORS.

SENIOR ASSISTANT, £1,300 to £1,600.

ASSISTANT, £905 to £1,310.

CLERK, £500 to £700.

Applications invited for above appointments in Regional Engineer's Department. Duties comprise budget control, financial supervision of contracts, technical examination of accounts and preparation of Bills of Quantities. Applications naming three referees to the Secretary, 10 Augustus-road, Edgbaston, Birmingham, 15, by 21st JUNE, 1960 from whom further details can be obtained.

LEICESTER CITY

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065-£1,220).

(b) ASSISTANT ARCHITECT, Housing Section, Special Grade (£785-£1,070).

(c) ASSISTANT QUANTITY SURVEYORS, Grade A.P.T. IV (£1,065-£1,220), Special Grade (£785-£1,070).

(a) The post will be concerned with research and development of C.L.A.S.P. building and will involve work in co-operation with other local authorities.

(b) The work of the Housing Architects includes re-development of central areas.

(c) Applicants should be A.R.I.C.S. and have had considerable experience in the preparation of Bills of Quantities, Final Accounts and Valuations.

Previous local government experience not essential. House accommodation at an economic rent will be provided if necessary.

National Conditions of Service apply.

Applications, together with the names of two referees, should reach the undersigned not later than MONDAY, 23rd MAY, 1960.

J. H. LLOYD OWEN,
City Architect.

10 Loseby-lane,
Leicester.

STOCKTON-ON-TEES
BOROUGH.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECT at a salary on the Special Grade (£785-£1,070 per annum).

Forms of application from the Borough Architect, 28 The Square, Stockton-on-Tees, to be returned not later than 21st MAY, 1960.

Housing accommodation will be available for married applicants.

JOHN B. HAWORTH,
Town Clerk.

MANSFIELD
BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANT
(Special Grade £785-£1,070).

Applications are invited for the above VACANCY in the Borough Engineer and Surveyor's Department.

Applicants should be qualified in accordance with paragraph (ix) (c) of the scheme of conditions of service; commencing salary will depend on experience. House on service tenancy may be rented if required. It is the Corporation's wish that the person appointed should live within the Borough.

Applications stating age, marital status, training, past and present appointments with salary, and experience, together with the names of three referees should be sent to the Borough Engineer and Surveyor, Carr Bank, Mansfield, to arrive not later than MONDAY, the 16th MAY, 1960.

A. C. SHEPHERD,
Town Clerk.

Carr Bank,
Mansfield.

LETCHWORTH
URBAN DISTRICT COUNCIL.

CLERK OF WORKS.

Applications are invited for an experienced CLERK OF WORKS to supervise housing schemes under construction by contract. Salary will be in accordance with Grade A.P.T. II (£765-£880 p.a.) or Grade A.P.T. III (£880-£1,065 p.a.) according to qualifications and experience. The tenancy of a Council house or flat will be provided if required.

Forms of application which may be obtained from the Council's Engineer and Surveyor, must be delivered to the undersigned by first post on MONDAY, 23rd MAY, in sealed envelopes endorsed "Clerk of Works," giving full particulars and nominating 3 referees.

H. PLINSTON,
Clerk of the Council.

The Council House,
Letchworth.
6th May, 1960.

RADNORSHIRE
COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments in the County Architect's Department:—

(a) ARCHITECTURAL DRAUGHTSMEN (three required). Salary A.P.T. Grade II (£765-£880 p.a.). Applicants should be experienced in contemporary school design and construction and have good drawing board experience and a flair for design.

(b) QUANTITY SURVEYING ASSISTANT. Salary A.P.T. Grade II (£765-£880 p.a.). Duties will include abstracting, billing and site measurement and generally assisting the Quantity Surveyor.

The successful applicants for the four appointments above-mentioned will be engaged on an interesting capital works programme of new school construction, etc., which is expected to last for about five years. All four appointments are, however, wholly associated with the capital works programme and the appointments will terminate if the programme is completed or suspended.

The appointments will be subject to the Conditions of Service of the National Joint Council for Local Authorities' Administrative, Professional, Technical and Clerical Services; to the Local Government Superannuation Acts and to termination by one month's notice in writing by either party at any time.

(c) FOREMAN in Direct Works Section consisting of some two dozen men. Applicants should have considerable experience in supervising men, organising and programming work and in Taking off approximate quantities from drawings and specifications. There will be five charge-hands in the various trades to assist the Foreman. The wage will be at a rate equivalent to ninepence halfpenny per hour over the rate specified for craftsmen by the Joint Negotiating Committee for Local Authorities' Services (Building and Civil Engineering) and the appointment will be subject to the working conditions of that Joint Negotiating Committee. (The craftsman's rate at present is 4s. 11d. per hour and the wage applicable to this post is therefore 5s. 8½d. per hour.)

Applications, stating the post applied for, age, qualifications and experience, with the names of two persons to whom reference may be made, must be received by the undersigned not later than 28th MAY, 1960.

D. C. S. LANE,
Clerk of the Council.

County Hall,
Llandrindod Wells,
Radnorshire.

BRAINTREE AND BOCKING
URBAN DISTRICT COUNCIL.

Applications are invited for the appointment of a JUNIOR SURVEYOR, A.P.T. Grade I, commencing salary £610 p.a. from persons with experience in measuring up and preparing Bills of Quantities.

The appointment will be subject to the National Scheme of Conditions of Service, the provisions of the Local Government Superannuation Acts, and to passing a medical examination, and will be terminable by one month's notice on either side.

Applications, suitably endorsed, stating age, experience and qualifications together with the name of two referees to be delivered to the undersigned not later than noon on MONDAY, 30th MAY, 1960.

Canvassing directly or indirectly will be deemed a disqualification and candidates should state in their application whether they are related to any Member or Senior Officer of the Council.

Housing accommodation will be made available if required.

H. COOK,
Engineer and Surveyor.

Town Hall,
Braintree.
9th May, 1960.

DAGENHAM
BOROUGH.

APPOINTMENT OF
SENIOR ASSISTANT ARCHITECT.

Applications are invited from Associates R.I.B.A. for the post of SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065-£1,220, plus £45 London Weighting), in the Borough Engineer and Surveyor's Department.

Housing accommodation may be made available.

Application forms and conditions of appointment on application to Borough Engineer and Surveyor, to whom they should be returned by THURSDAY, 26th MAY, 1960.

KEITH LAUDER,
Town Clerk.

Civic Centre,
Dagenham.

WREXHAM
BOROUGH.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments :—

(a) TWO ARCHITECTURAL ASSISTANTS, salary Specialist Grade (£785-£1,070 per annum). Candidates must be A.R.I.B.A. or equivalent.

(b) ONE ARCHITECTURAL ASSISTANT, salary range A.P.T. Grade II (£765-£880 per annum).

Candidates must have Intermediate R.I.B.A. or equivalent.

Housing accommodation provided if required, and the Council will be prepared to consider essential user or casual user car allowance, also removal expenses.

Forms of application and particulars obtainable from the Borough Engineer, 31 Chester-street, Wrexham.

Applications to be returned to the undersigned by not later than MONDAY, 23rd MAY, 1960.

PHILIP J. WALTERS,
Town Clerk.

Guildhall,
Wrexham.
April, 1960.

GLASGOW
CORPORATION.

ARCHITECTURAL AND PLANNING DEPARTMENT.
ASSISTANT ARCHITECTS.
ASSISTANT QUANTITY SURVEYORS.

Vacancies exist for a number of qualified ASSISTANTS as above. Salary scale £795-£1,240 with placing according to experience.

Applications should be addressed to the City Architect and Planning Officer, 20 Trongate, Glasgow, C.1. Those who have submitted applications during the past 12 months should not reply to this advertisement.

A. G. JURY,
City Architect and Planning Officer.

HUDDERSFIELD
COUNTY BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the position of CLERK OF WORKS at a salary in accordance with A.P. and T.I. Grade (£610-£765 per annum).

Candidates should have experience in the supervision of road construction schemes. The salary mentioned above is for a 38-hour week and overtime will be paid for additional hours worked in accordance with the conditions of service.

The appointment is superannuable and the successful applicant will be required to pass a medical examination.

Applications stating age, experience, etc., and giving the names of not more than three persons to whom reference can be made should reach A. L. Percy, Esq., M.I.C.E., Borough Engineer and Surveyor, High-street Buildings, Huddersfield, not later than 20th MAY, 1960.

Canvassing is prohibited and will be considered a disqualification.

HARRY BANN,
Town Clerk.

Town Hall,
Huddersfield.
May, 1960.

HARROW
BOROUGH.

Applications are invited for the following appointments in the Department of the Borough Engineer and Surveyor :

BUILDING SURVEYORS, A.P.T. Grade III (£880 to £1,065 per annum) plus London "Weighting," for works of maintenance and improvements to Municipal properties, chiefly Schools.

Applicants must possess a sound knowledge of building construction and services, and have extensive experience of specification writing.

Commencing salaries will be in accordance with qualifications and experience.

Contributions towards removal expenses will be considered, the Council is unable to provide housing accommodation.

The appointments will be subject to the Local Government Superannuation Acts ; and to the National Joint Council's scheme of Conditions of Service.

Application forms, obtainable from me, should be returned not later than MONDAY, 23rd MAY, 1960.

D. H. PRITCHARD,
Town Clerk.

Town Clerk's Office,
Harrow Weald Lodge,
Harrow,
Middx.

WEDNESFIELD
URBAN DISTRICT COUNCIL.

ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the position of CHIEF ASSISTANT ARCHITECT at a salary in accordance with A.P.T. Grade IV (£1,065 to £1,220).

Candidates must be qualified and have had considerable experience in the appointment for which they make application.

The district is developing rapidly and offers exceptional experience.

The National Joint Council Conditions of Service will apply and the successful candidate will be required to contribute to a Superannuation Scheme and also undergo a medical examination.

Housing accommodation will be provided, if necessary, and reasonable removal expenses will be paid.

Applications stating age, qualifications, experience, with the names of two referees must be received by the undersigned by not later than 13th MAY, 1960.

J. HENWOOD JONES,
Clerk of the Council.

Council Offices,
Alfred Squire-road,
Wednesfield,
Staffs.

HOVE
BOROUGH.

Applications are invited for the following posts in the Borough Engineer and Surveyor's Office :

(a) SENIOR ARCHITECTURAL ASSISTANT.

(b) SENIOR TOWN PLANNING ASSISTANT.

(c) DRAUGHTSMAN AND TRACER.

Posts (a) and (b) are graded A.P.T. IV (£1,065-£1,220) and post (c) A.P.T. I (£610-£765).

Qualifications required : Post (a) final examination of the R.I.B.A. or equivalent and wide experience in the design and erection of all types of municipal buildings ; post (b) final examination of the Town Planning Institute or equivalent with at least five years' practical experience. Candidates for post (c) should be neat draughtsmen preferably with previous experience in a municipal engineer's office.

Posts subject to Local Government Superannuation Acts, medical examination and one month's notice on either side.

Applications, stating age, qualifications and previous experience, together with the names of two referees, must be received by the undersigned not later than MONDAY, 30th MAY, 1960.

Relationship to any member or officer of the Council must be disclosed and canvassing, either directly or indirectly, will be a disqualification.

JOHN E. STEVENS,
Town Clerk.

Town Hall,
Hove, 3.
29th April, 1960.

BRIERLEY HILL
URBAN DISTRICT COUNCIL.

APPOINTMENT OF
ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of ARCHITECTURAL ASSISTANT within Grades I and II, i.e. between £610 and £880 per annum.

Applicants should be experienced in the management of Building Contracts, the preparation of designs, working drawings for housing and other architectural works. Projects in hand include Civic Centre development and a Public Baths scheme.

Commencing salary will be in accordance with qualifications and experience.

Applications, stating age, full details of qualifications and experience, and accompanied by copies of two recent testimonials, must reach the Clerk of the Council, Civic Buildings, Brierley Hill, Staffs., not later than TUESDAY, 24th MAY, 1960.

The Council is prepared to provide housing accommodation for the successful applicant, if necessary.

WELSH REGIONAL HOSPITAL BOARD
REGIONAL ARCHITECT'S DIVISION
HOSPITAL BUILDING PROGRAMME

Posts are vacant for:—	*Salary*
(a) **Assistant Regional Architect**	**£1,825—£2,175**
(b) **Senior Assistant Architects**	**£1,300—£1,600**
(c) **Assistant Architects**	**£905—£1,310**
(d) **Architectural Assistants**	**£625— £900**
(e) **Draughtsmen**	**£475— £685**
(f) **Senior Assistant Quantity Surveyor**	**£1,300—£1,600**
(g) **Assistant Quantity Surveyor**	**£905—£1,300**
(h) **Building Surveyor**	**£1,300—£1,600**

The field of hospital planning and design in the Principality offers many opportunities for enthusiastic architects to develop their knowledge in practically every type of building work, including Ward Units, Operating Theatres, Maternity Centres, Out Patient Departments, Occupational Therapy Pavilions, Kitchens, Boiler Houses, Staff and Housing Accommodation, Recreational facilities, etc.

The expanding building programme includes large new hospitals and a variety of work including additions, alterations and maintenance works. The Welsh Hospital Region covers the whole of Wales, Anglesey and Monmouthshire involving some 200 hospitals. The Regional Architect's Department is responsible for the preparation of sketch plans, working and detail drawings, the supervision of works in progress and surveys, involving approximately 50% of the capital works building programme. The Boards total capital allocation for the current year is £1,649,554.

It is expected that an opportunity will be given to candidates to undergo a special post graduate training course at the Royal Institute of British Architects, followed by other studies later in the year.

Applicants for the post of Assistant Regional Architect, in addition to possessing the Final Examination of the Royal Institute of British Architects, should be particularly well experienced in the design of major building projects, the control of staff, and contract administration.

Registered architects holding the Final Examination of the Royal Institute of British Architects, well experienced in design and modern methods of construction, together with practical building experience are required for posts (a), (b), and (c). Applicants for post (d) should hold the Intermediate Examination of the Royal Institute of British Architects, while Draughtsmen (e) should have had experience in an Architect's Office.

Applicants for post (f) should hold the Final Examination of the Royal Institution of Chartered Surveyors and must have had extensive professional experience in the preparation of Bills of Quantities and Final Accounts, site measurement and valuations for interim certificates on Architectural and Engineering projects.

Assistant Quantity Surveyors (g) should hold the Final Examination of the Royal Institution of Chartered Surveyors and have a good experience in taking off, preparation of Bills of Quantities and estimates, and valuations of works in progress and the settlement of Final Accounts, whilst the Building Surveyor (h) to be appointed will be required to carry out surveys, levelling, dilapidation surveys and prepare estimates of cost, measure builder's work, prepare specifications, particularly in connection with alterations to existing buildings; and to survey properties.

All posts are superannuable; a five-day week applies.

Applications or further enquiries to the Secretary, Temple of Peace and Health, Cathays Park, Cardiff, within 10 days of the appearance of this advertisement, stating age, qualifications, experience, present position and salary and names of two referees.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the post of ARCHITECTURAL ASSISTANT, Grade A.P.T. I (£610-£765 per annum, plus a London Weighting Allowance of £10-£30 per annum according to age).

Applicants must have had experience in the preparation of plans, specifications, etc., including the maintenance of public buildings.

Saturday mornings are normally free of duty.

Application forms obtainable from H. D. Peake, M.Sc(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middlesex, returnable to the undersigned.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middlesex

CARDIFF CITY

CITY ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments.

(a) ARCHITECTURAL ASSISTANT, A.P.T. Grade II, £765-£880.

(b) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade III, £880-£1,065.

(c) SENIOR ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade IV, £1,065-£1,220.

General Conditions of Appointment may be obtained from the undersigned.

Applications, accompanied by the names and addresses of two referees, appropriately endorsed, should be delivered to me not later than the 23rd MAY, 1960.

S. TAPPER-JONES,
Town Clerk.

City Hall,
Cardiff.

WARWICKSHIRE
COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.
(A) DEPUTY GROUP ARCHITECT, Grade A.P.T. IV-V (£1,065-£1,375).

Applications are invited from qualified and experienced architects for this post, which is one of the groups handling projects for the Council's major building programme.

The post is one of responsibility requiring a high degree of initiative and design ability in up-to-date forms of construction, materials, costs, job planning and organisation.

The successful applicant will also be expected to deputise generally for the group architect.

(B) ARCHITECTS, Special Grade (£785-£1,070).

Applications are invited from architects who have passed Part I and II of the R.I.B.A. final or special examination or their equivalent at one of the recognised schools of architecture. The successful applicants will work in groups on large projects, and an opportunity will be given to men with enthusiasm and ability to design and carry out projects under a group architect.

(C) ARCHITECTURAL ASSISTANTS, Grade A.P.T. II (£765-£880).

Vacancies exist for assistants who are up to intermediate R.I.B.A. standard and who require experience in a variety of interesting projects.

The commencing salary can be within the grade according to ability and experience. The Council have schemes for the payment of removal expenses and a lodging allowance to married officers. Application forms and full conditions applicable to the appointments can be obtained from Eric Davies, F.R.I.B.A., A.M.P.T.I., County Architect, Shire Hall, Warwick.

L. EDGAR STEPHENS,
Clerk of the Council.

Shire Hall,
Warwick.
May, 1960.

BIRMINGHAM CITY

CITY ARCHITECT'S DEPARTMENT.

Applications are invited from candidates trained as craftsmen and with a thorough knowledge of the building trade, for appointment as CLERK OF WORKS for Municipal Dwellings (including multi-storey flats), at commencing salaries within the Miscellaneous Division, Grade VI (£735-£795) according to capabilities and experience.

Applications, stating age, present position and salary, experience and two referees, to the undersigned by 27th MAY, 1960.

A. G. SHEPPARD FIDLER,
City Architect.

Civic Centre,
Birmingham, 1.

CROMER
AREA HOSPITAL MANAGEMENT COMMITTEE.

CROMER SUB-GROUP OF HOSPITALS.

Applications are invited for the post of ASSISTANT ENGINEER to assist the Superintendent Engineer in the supervision and maintenance of the engineering services in the Cromer Sub-Group of Hospitals.

Applicants must have a first-class knowledge of mechanical engineering, preferably with a knowledge of electrical installations.

The post is subject to the terms and conditions of the appropriate Whitley Council. Salary £575 (5 x £25)-£700. (Salary under review.)

Apply in writing, stating age, qualifications, details of experience together with names and addresses of three referees, to the Group Secretary, Cromer Area Hospital Management Committee, Cliff-avenue, Cromer, Norfolk, by the 25th MAY, 1960.

EAST HAM
COUNTY BOROUGH.

EDUCATION COMMITTEE.

EAST HAM TECHNICAL COLLEGE. DEPARTMENT OF BUILDING.

Applications are invited for the post of ASSISTANT, Grade "B," to teach BUILDING SCIENCE AND MATHEMATICS. Applicants should preferably be graduates or hold some equivalent qualification.

BURNHAM SCALE (London Area): £700 x £27 10s. (15) x £37 10s. (1)-£1,150; plus London Weighting of £38 or £51 as appropriate.

Application forms (returnable 23rd May, 1960) and further particulars from Chief Education Officer, Education Office, Town Hall Annexe, Barking-road, East Ham, E.6.

WEST BROMWICH
COUNTY BOROUGH.

Applications are invited for the appointment of BUILDING ASSISTANT. Salary A.P.T. III (£880-£1,065 per annum).

Applicants should be experienced in normal building procedure, contract procedure.

Applications, naming two referees to Borough Surveyor, Town Hall, West Bromwich, by 16th MAY, 1960.

WILLESDEN
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments in the Building Surveyor's Section:

(a) GENERAL ASSISTANTS, (2 posts), within Grade A.P.T. II (£765-£880 p.a.).

(b) GENERAL ASSISTANT, within Grade A.P.T. I (£610-£765 p.a.).

London Weighting, maximum £30 is payable in addition to both above salaries.

Applicants should have passed the Intermediate Examination of the Royal Institution of Chartered Surveyors or equivalent and have had experience in the general work of a Building Surveyor's Office and the administration of Building By-laws and the Town Planning Acts.

For one of the (a) posts experience of dealing with the control of advertisements will be an advantage.

The Council are unable to assist with housing accommodation.

Details and form of application obtainable from the Borough Engineer, Town Hall, Dyne-road, Kilburn, N.W.6, and must be returned by 10 a.m., MONDAY, 30th MAY, 1960.

ADMIRALTY

—NAVY WORKS DEPARTMENT.
ARCHITECTURAL AND CIVIL ENGINEERING ASSISTANTS.

Vacancies exist in Navy Works Department Drawing Offices for ARCHITECTURAL and CIVIL ENGINEERING ASSISTANTS as shown. Posts are non-pensionable. Opportunities for transfer to Established Staff will occur.

ENGINEERING ASSISTANTS

Vacancies exist at Pinner (Middlesex), Portsmouth, Devonport, Liverpool, Chatham, Rosyth, Greenock, Macrihanish and Glen Douglas, and occur at Establishments elsewhere in the United Kingdom from time to time.

Applicants must be competent Draughtsmen and experienced designers in one or more of the following types of civil engineering works: structural steelwork; reinforced concrete; dock and harbour works; airfield construction; oil fuel schemes; roads, rail services and water supplies. O.N.C. or equivalent qualification. For the posts at Macrihanish and Glen Douglas preference will be given to candidates with surveying and setting out experience.

ARCHITECTURAL ASSISTANTS

Vacancies exist at Pinner (Middlesex), and Portsmouth. Applicants must be competent Draughtsmen and will be required for work with Professional Architects on the preparation of designs for a wide range of new works, including new housing designs and estate layouts; all forms of accommodation; specialised technical buildings and industrial buildings in H.M. Dockyards. Preference given to candidates studying for professional qualifications.

Salary: (National Rate—subject to slight variation dependent on location): starting from £550 p.a. (at age 21) to £760 p.a. (28 and over): maximum of scale—£875 p.a. Opportunities occur for promotion to Leading grade—salary maximum £1,025 p.a. National Rate.

Five-day week; annual leave 18 days rising to 22 after 10 years.

Consideration will be given to successful candidates being granted assistance to obtain professional or technical qualifications.

Candidates, who must be British subjects, are invited to apply, in writing (giving details of experience) to Director General, Navy Works, Admiralty, Chamberlain Way, Pinner, Middlesex.

Interview will be arranged locally.

SALFORD CITY

DIRECT WORKS DEPARTMENT.

Applications are invited for the appointment of BUILDING SURVEYOR'S ASSISTANT in the above Department at a salary within the range of Grade A.P.T. I-II (£610-£880). The post is superannuable and subject to a medical examination.

Candidates should have had some experience in the following:—

(a) The preparation of schedules of materials from plans and specification for ordering purposes.

(b) Measuring and calculation for Bonus Incentive Scheme.

(c) Surveying of maintenance works and adaptations to all types of Corporation buildings.

(d) Checking work in progress.

(e) Finalisation of accounts for major jobs.

Facilities for professional training are given to holders of Junior posts.

Housing accommodation may be considered in approved circumstances.

In addition, it would be considered an advantage if applicants have had previous experience in a Builder's office.

Applications, giving details of present and previous appointments, qualifications and experience, together with the names of two referees, should be sent to the General Manager, Direct Works Department, Unwin-street, Cross-lane, Salford 6, so as to be received not later than 10 a.m. on MONDAY, 23rd MAY, 1960.

R. RIBBLESDALE THORNTON,
Town Clerk.

THE PATENT GLAZING CONFERENCE.

TECHNICAL OFFICER.

The Patent Glazing Conference, which is an old-established trade association representing the interests of specialist sub-contractors engaged in the manufacture, design and installation of Patent Glazing for the daylighting of industrial and other buildings, is considering the appointment of a full-time TECHNICAL OFFICER.

The duties would be generally to keep the Conference in touch with current development in design and construction in the building industry as a whole, and to consider and advise on their implications for the Patent Glazing trade. He would be expected to pay particular attention to problems on the behaviour of traditional and new materials, insulation, lighting, safety, maintenance and economics and to advise on any research which the Conference might sponsor.

The ideal candidate would be in his late 20s or in his 30s, enthusiastic, have an enquiring mind and be capable of expressing himself clearly both orally and in writing. He should have scientific or technical experience preferably in research or in architecture. The salary would be according to his general qualifications but a starting salary of not less than £1,500 p.a., provisionally on a three-year engagement, is envisaged. The proposed appointment is a new one and prospects would depend entirely on how the work and the officer himself developed.

Applications, marked Strictly Personal, should be submitted by 31st MAY, 1960, to the Director, The Patent Glazing Conference, Burwood-house, Caxton-street, S.W.1.

WILLESDEN
BOROUGH.

Applications are invited for the following permanent appointments:

(a) ASSISTANT ARCHITECT, within Grade A.P.T. IV (£1,065-£1,220 p.a.).

(b) ASSISTANT ARCHITECT, within Special Grade (£785-£1,070 p.a.).

(c) ARCHITECTURAL ASSISTANT, within Grade A.P.T. II (£765-£880 p.a.).

(d) ARCHITECTURAL ASSISTANT, within Grade A.P.T. I (£610-£765 p.a.).

London Weighting, maximum £30 p.a. is payable in addition to the above salaries.

Candidates for posts (a) and (b) must be Associates of the R.I.B.A. and should have a high ability in design, capable of supervising contracts and experience of multi-storey flats.

For one post experience of redevelopment schemes will be an advantage.

Candidates for posts (c) and (d) should have passed the Intermediate Examination of the R.I.B.A.

A programme of interesting and varied works is expected to continue for many years and opportunities are offered to imaginative designers with a contemporary and practical outlook.

The appointments will be superannuable and subject to the National Conditions of Service.

The Council is unable to assist with housing accommodation.

Forms of application and conditions of appointment may be obtained from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6. Applications to be returned to the undersigned not later than 9 a.m. on MONDAY, 30th MAY, 1960.

(signed) R. S. FORSTER,
Town Clerk.

ENFIELD
BOROUGH.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.
APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment at a salary in accordance with Grade A.P.T. II of the National Scheme of Conditions of Service (£765-£880 per annum) with the additional appropriate London Weighting.

The commencing salary will be fixed at a point within the Scale commensurate with qualifications and experience.

Application forms obtainable from Mr. H. D. Peake, M.Sc.(Eng.), M.I.C.E., Borough Engineer and Surveyor, 7 Little Park Gardens, Enfield, Middx., should be returned to the undersigned by the 31st MAY, 1960.

CYRIL E. C. R. PLATTEN,
Town Clerk.

Public Offices,
Enfield,
Middx.

SHEFFIELD
UNIVERSITY.

Applications are invited for the post of TECHNICAL ASSISTANT (ARCHITECTURAL) on the staff of the Planning Office which offers opportunity for interesting work on the New Buildings Programme. Applicants should have drawing office experience in an architectural office, and have a knowledge of working drawings. Starting salary £700-£850 per annum according to age and experience.

Applications stating age, qualifications and experience, with details of present post and the names of two persons to whom reference may be made should be submitted to the Bursar, The University, Sheffield, 10, not later than 23rd MAY, 1960.

BLACKPOOL
COUNTY BOROUGH.

Applications are invited for:

ASSISTANT ARCHITECTS, Special Scale, £785-£1,070 p.a.

ASSISTANT QUANTITY SURVEYORS, Special Scale, £785-£1,070 p.a.

Forms, etc., from Arthur Hamilton, B.Sc., A.R.I.B.A. (Borough Surveyor), P.O. Box 17, Municipal Buildings, Blackpool.

HOLBORN
BOROUGH COUNCIL.

BOROUGH ARCHITECT'S DEPARTMENT.

BUILDING SURVEYOR Required. Salary Grade, A.P.T. IV (£1,065-£1,220) plus London Weighting £45 at age 26. Applicants should be suitably qualified. Inspection of properties for adaptation and conversion, repair and maintenance, sketches, specifications, estimates. Capable of negotiating with other Surveyors and supervision of work. Applications, stating age, qualifications and experience, with names of three referees, to Town Clerk, Town Hall, High Holborn, W.C.1.

AIR MINISTRY

Require CLERKS OF WORKS (BUILDING) at R.A.F. and Ministry of Aviation stations for supervision of construction and maintenance work. Candidates must hold O.N.C. (Building), *or* Intermediate C. and G. Certificate in a Craft, *or* Associate Membership of Institute of Clerks of Works *or* equivalent qualification. They must also have served apprenticeship as craftsmen with three years' experience as foremen of trade and have experience as general foremen or clerks of works on big contracts. Three years' full-time or five years' part-time training in a building school or three years' experience in a building office in estimating, costing and management will be accepted in lieu of apprenticeship. Financial assistance and time off given for recognised courses of study. Promotion and pension prospects. Five-day week with 18 days' paid leave a year initially. Overseas tours for which special allowances granted.

Salary ranges from £680 (at age 26) to £850. Commencing salary dependent upon age, qualifications and experience. Applicants, who must be natural born British subjects and not over age 45 years, should write stating age, qualifications and experience to Manager (PE. 1048), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. No original testimonials should be sent. Candidates selected will normally be interviewed in London and certain expenses reimbursed. Only candidates selected for interview will be advised.

MANCHESTER
CITY ARCHITECT'S DEPARTMENT.

Applications invited for appointment of SENIOR ASSISTANT ARCHITECT/GROUP LEADER, permanent. Salary A.P.T. V, £1,220-£1,375 per annum. Candidates must be architects of some experience, have high ability in design, be capable of taking charge of large contracts and of controlling a group of assistant architects. Five-day week. Housing accommodation for a limited period may be provided. Removal expenses allowed. Forms of application from City Architect, Town Hall. Returnable by 23rd MAY, 1960.

SOLIHULL
BOROUGH.

APPOINTMENT OF ARCHITECTURAL ASSISTANTS.

Applications are invited from Architects with suitable qualifications and experience for the undermentioned appointments:—

(a) SENIOR ASSISTANT ARCHITECT, A.P.T. Grade V (£1,220-£1,375 per annum).

(b) ASSISTANT ARCHITECT, A.P.T. Grade II (£765-£880 per annum).

The Borough, which has a population of approximately 90,000 and which is still expanding rapidly, is an excepted district for education and has been recommended for County Borough status by the Local Government Commission for England. There is a considerable programme of varied capital works to be undertaken in the very near future.

The appointments will be subject to satisfactory medical reports, the Local Government Superannuation Acts, the National Scheme of Conditions of Service and to one month's notice in writing on either side.

In appropriate cases the Council will assist in the provision of housing accommodation and half removal expenses will be paid.

Applications, giving full particulars as to age, qualifications and past and present experience, together with the names and addresses of 2 referees, should be submitted to the Borough Surveyor, 90 Station-road, Solihull, not later than 31st MAY, 1960.

W. MAURICE MELL,
Town Clerk.

The Council House,
Solihull,
Warks.

NORTH-EAST METROPOLITAN
REGIONAL HOSPITAL BOARD.

40 Eastbourne-terrace, London, W.2.
W. G. Plant, Dip.Arch.(L'pool), F.R.I.B.A, Regional Architect.

The Board are engaged in an expanding programme of Hospital Development and the undermentioned appointments offer exceptional opportunities of gaining experience in a wide, varied and interesting field.

Posts are pensionable and prospects of advancement are good. Previous Hospital experience is *NOT* essential.

1. PRINCIPAL ASSISTANT QUANTITY SURVEYOR, Scale I.

Salary commencing at £1,815, rising to £2,185.

Applicants must be Corporate Members of the Royal Institute of Chartered Surveyors (Sub. Div. III Quantities) or, in certain circumstances, Associate Members of the Institute of Quantity Surveyors.

The Architect's Department includes a quantity surveying section having a staff of approximately 16, and the Board also make use of the services of Quantity Surveyors in private practice. The Officer appointed will be directly responsible to the Regional Architect for the Board's quantity surveying work, including co-operation with and instruction of private quantity surveyors. Applicants should have experience of estimating, preparation of bills of quantities, final accounts and all matters relating to building contract procedure. Only candidates with wide experience in all aspects of quantity surveying and contract procedure need apply.

2. ASSISTANT QUANTITY SURVEYORS.

Salary £945-£1,360 per annum. Candidates must be Corporate Members of the Royal Institute of Chartered Surveyors (Sub. Div. III Quantities) or, in certain circumstances, Associate Members of the Institute of Quantity Surveyors. Those appointed will be required to undertake site measurement, taking-off and estimating (all under supervision), working up and final accounts.

3. PRINCIPAL ASSISTANT ARCHITECT, Scale II.

Salary commencing at £1,715 per annum, rising to £2,085.

The Board employ a large staff of Architects and in addition, make use of the services of Architects in private practice, and the Officer appointed to this post will be required to collaborate with and, to some extent, control the work of private Architects in the design and execution of Hospital building projects. Applicants must be registered Architects, having passed the requisite examinations, and must be good designers having wide experience of all aspects of contract procedure and be capable of discussing substantial projects with Principals of firms of private Architects.

4. ARCHITECTURAL ASSISTANTS.

Salary £645-£940.

Applicants must have passed the Intermediate examination of the Royal Institute of British Architects or an examination giving exemption therefrom. They must be good draughtsmen and interested in design.

Applications, giving age, present salary, qualifications and experience (with dates), together with the names of three referees to the Secretary, North-East Metropolitan Regional Hospital Board, 40 Eastbourne-terrace, W.2, WITHIN 14 DAYS.

ACTON BOROUGH.
BOROUGH ENGINEER'S DEPARTMENT.

Applications are invited for the following permanent appointments:—

ENGINEERING ASSISTANT, Special Grade.
ENGINEERING ASSISTANTS (2), A.P.T. I-II, Special grade.
ARCHITECTURAL ASSISTANT, A.P.T., Grade IV.
ARCHITECTURAL ASSISTANT, Special Grade.
ARCHITECTURAL ASSISTANT, A.P.T. I-II.
JUNIOR ARCHITECTURAL ASSISTANT, A.P.T. I.

Successful candidates will be engaged on general municipal works and on multi-storey housing development and conversion of properties. Applicants should have passed appropriate sections of the I.C.E., I.Mun.E., R.I.B.A or R.I.C.S. examinations.

Starting salaries will be according to age, qualifications and experience. London allowance (max. £45 p.a.) is payable in addition. The Council operates a five-day week.

Conditions of apointment and forms of application may be obtained from and should be returned to the Borough Engineer, Town Hall, Acton, W.3, by 30th MAY, 1960.

CARSHALTON
URBAN DISTRICT COUNCIL.

CIVIL ENGINEERING DRAUGHTSMAN for Municipal Engineer's Office. Preferably with some knowledge of surveying and levelling. Salary within range £315-£625 according to age and experience.

Applications stating age, education, qualifications, experience (with dates) to be sent, together with the names of three referees, to Mr. F. J. Kennedy, A.M.I.C.E., Stone Court, The Grove, Carshalton, not later than 19th MAY. Canvassing will disqualify.

C. H. DURRANT,
Clerk of the Council.

District Council Offices,
The Grove,
Carshalton.

WEST HAM
COUNTY BOROUGH.

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications invited for established posts of:

(a) ADMINISTRATIVE ASSISTANT (MALE), A.P.T. Grade I, £610-£765 p.a. Responsible, inter alia, for administration and operation of the Department's Central Filing system.

(b) CLERICAL ASSISTANT, Clerical Division, Grade I. Male: £595-£670 p.a.; Female: £578-£652 p.a. (subject to equal pay). Must be competent typist, to work on own initiative, and take responsibility. Shorthand an advantage.

Plus London Allowance to both posts.

Applications to Borough Architect and Planning Officer, 70 West Ham-lane, E.15.

STRUCTURAL
ENGINEERS.

ENGINEERS Required in Architect's Department, L.C.C., up to £1,135 (under review).

(a) STRUCTURAL ENGINEERING DIVISION.—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings.

(b) STRUCTURAL ENGINEERING DIVISION.—To deal with applications in respect of special structures under Part IV of London Building Act (A) Act, 1939, and constructional by-laws. Interesting work in involving consideration of unconventional forms of construction.

(c) DISTRICT SURVEYOR'S SERVICE.—Work mainly outside involving negotiations with Architects, Engineers and Surveyors and supervision of works in progress.

Good prospects in all these aspects of the Council's work. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/495/5A), County Hall, S.E.1.

BUILDING SURVEYORS

Architect's Department, L.C.C., has vacancies in Building Regulation Division and District Surveyor's Service for work in connection with applications under London Building Acts and by-laws. District Surveyor's offices are located in Metropolitan Boroughs and work involves negotiations with developers and supervision of works in progress.

Up to £1,135 (under review) commencing according to qualifications and experience. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council (EK/B/494/5A), County Hall, S.E.1.

CARDIGANSHIRE
COUNTY COUNCIL.

WOULD YOU ENJOY A MILD CLIMATE, GOOD FISHING, BATHING AND SAILING, with the amenities of a University town and a National Library close at hand? ARCHITECTS AND ASSISTANTS who can accept these attractions should apply to the County Architect, County Hall, Aberaeron, Cardiganshire, for forms for posts in A.P.T. Special Grade and A.P.T. Grades I-II. Applications to be returned by 30th MAY, 1960.

J. E. R. CARSON,
Clerk of the County Council.

LEYTON
BOROUGH.

(Municipal Borough in County of Essex, population approximately 100,000.)

Applications invited for appointment of BUILDING INSPECTOR at salary of £765 per annum to £880 per annum (Grade A.P.T. II, National Scales) plus London Weighting.

Applicants should possess Building Inspector's Certificate of Institution of Municipal Engineers and must have had practical experience of building construction and the examination of building plans.

Five-day week is operated.

Housing Accommodation will be considered.

Apply by letter with names of two referees to Borough Engineer, Town Hall, Leyton, E.10, not later than SATURDAY, 21st MAY, 1960.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

HORNSEY
BOROUGH.

TWO ARCHITECTURAL ASSISTANTS required:

Salary Grade A.P.T. IV/V (£1,065 to £1,375, plus London Weighting). Commencing salary according to age and experience.

The Council have a varied and interesting programme including a New Central Library, Public Mortuary and housing work in connection with a Redevelopment Area and there are prospects of employment for a considerable period.

Application forms from Borough Engineer and Surveyor, Town Hall, Crouch End Broadway, N.8, to be returned by noon on FRIDAY, the 20th MAY, 1960.

W. B. MURGATROYD,
Town Clerk.

Town Hall,
Hornsey,
N.8.

HOYLAND NETHER
URBAN DISTRICT COUNCIL.

APPOINTMENT OF ASSISTANT SURVEYOR.

Applications are invited for the above appointment in the Engineer and Surveyor's Department at a salary within Grades A.P.T. II or III, according to qualifications.

Candidates must have good experience in surveying, levelling, preparation of layouts, working drawings, specifications, quantities and checking contractors' final accounts.

The appointment will be subject to the National Scheme of Conditions of Service and to the Local Government Superannuation Acts.

Housing accommodation will be made available if necessary.

A car allowance will be payable.

Applications endorsed "Assistant Surveyor," stating age, qualifications and experience, together with names and addresses of two referees must be delivered to the undersigned not later than 28th MAY, 1960.

E. COULT,
Clerk of the Council.

Town Hall,
Hoyland,
near Barnsley.

OXFORD CITY.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.
ARCHITECTURAL ASSISTANTS
(Grade Special Classes, A.P.T. IV, according to experience).

Applications are invited for the above POSTS in this Department, which has a very full programme of interesting work in hand, including redevelopment schemes, in addition to its normal programme.

A high standard of design and a keen interest in contemporary architecture are required, together with a sound knowledge of building construction. Assistants are encouraged to control their own contracts from sketch design stage onwards.

Candidates must be members of the Royal Institute of British Architects.

Housing accommodation will be made available if required.

Further particulars and forms of application may be obtained from E. G. Chandler, A.R.I.B.A., M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford. Closing date 30th MAY, 1960.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.
3rd May, 1960.

LINER

Slab Block and Brick Machine

Makes Plain Slabs, Grooved, or Tongued and Grooved Slabs, Frogged or Plain Bricks, Rock Faced and other Building Blocks. Hand Tamping unnecessary. Fast in operation. Needs only wood pallets.

Write for Illustrated Brochure.

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London Office and Showrooms:
Liner House, Laxden Rd., Acton, W.3. Tel.: ACOrn 8931

"COOLERWAY"
Extractor Fan by Metway

The perfect answer to foul air and condensation!

★ APPROVED BY ALL ELECTRICITY BOARDS

★ GUARANTEED FOR 12 MONTHS

PRICE EACH £5·19·6

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- To be effective, an Extractor Fan should provide 12 changes of air per hour. The "Coolerway" with its 7½" blade displaces 16,000 cu. ft. per hour and meets this requirement in the average room.
- Body work—white enamel and rustproof.
- 25 watt motor, TV suppressed, no maintenance.
- Installation simple, with full instructions.

Obtainable from all reputable Electrical Wholesalers and Builders' Merchants
For further details ask for Catalogue DAR/16/TB.

METWAY · KEMP TOWN · BRIGHTON

Note: New Telephone No. Brighton 64433.

QUANTITY SURVEYORS

Pensionable posts for men and women in:

AIR MINISTRY
MINISTRY OF EDUCATION
MINISTRY OF HEALTH
MINISTRY OF HOUSING AND LOCAL GOVERNMENT
DEPARTMENT OF AGRICULTURE FOR SCOTLAND
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH
MINISTRY OF WORKS

Age at least 25 and under 35 on 1.1.60 (extension for regular Forces service, Overseas Civil Service, established civil service and temporary Government service as Quantity Surveyor). Candidates must have achieved Corporate Membership of R.I.C.S. (Quantities Section) or have passed examinations necessary for attaining such membership. Starting salary (men, London) from £830 to £1,125 according to age. Scale maximum (London) £1,300. Promotion prospects. Write Civil Service Commission, 17 North Audley Street, London, W.1, for application form quoting **S/63/7.**

WEST SUFFOLK
COUNTY COUNCIL

Applications are invited for the post of SENIOR ASSISTANT ARCHITECT within Grade A (£1,175-£1,390).

N.J.C. Service Conditions; post pensionable; medical examination.

Application forms obtainable from the County Architect, 13 Westgate-street, Bury St. Edmunds, to be returned as soon as possible.

PETERBOROUGH
JOINT EDUCATION BOARD.

PETERBOROUGH TECHNICAL COLLEGE.

Required for September, 1960, ASSISTANT, Grade A, Building. Candidates should hold City and Guilds Final Certificate in Carpentry and Joinery. Preference will be given to candidates who also hold a Higher National Certificate in Building.

Salary in accordance with the Burnham Scales for Further Education with additions for qualifications and experience.

£520 x £27 10s. to £1,000.

Further particulars and forms of application obtainable from the Principal, Peterborough Technical College, Eastfield-road, Peterborough, to whom completed forms should be returned as soon as possible.

BATTERSEA
METROPOLITAN BOROUGH.

Applications are invited for the following appointments to the permanent staff:—

(a) ASSISTANT BUILDING SURVEYOR, A.P.T. II, £765-£880 per annum.

(b) JUNIOR ASSISTANT BUILDING SURVEYOR, A.P.T. I, £610-£765 per annum.

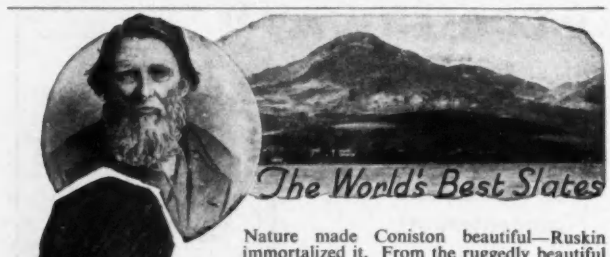
London Weighting (£30 per annum at age 26 and over) is payable in addition for each appointment. The commencing salary in each case will be according to qualifications and experience. Applicants for appointment (a) should have passed the intermediate examination of the Royal Institution of Chartered Surveyors (Building Sub-division). The appointments are subject to the Local Government Superannuation Acts, 1937-53. Further particulars and forms of application obtainable from the Borough Engineer and Surveyor, Town Hall, S.W.11. Closing date 23rd MAY, 1960.

WESTMINSTER
CITY COUNCIL.

CLERK OF WORKS required for construction of a multi-storey parking place to accommodate approximately 370 cars in W.1. District, comprising sub-basement, basement, lower ground floor, ground and two upper floors with additional floors on frontage. Salary £19 per week.

Experience of reinforced concrete multi-storey construction essential.

Applications giving details of age, experience, qualifications, past appointments and names, etc., of two referees, to Town Clerk, Westminster City Hall, Charing Cross-road, W.C.2, within 10 days of appearance of advertisement.



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is eminently suitable for interior or exterior use where great durability and unique appearance are of paramount importance. Architects may specify its use for Facings, Foundation Stones, Paving and Flooring, Steps, Cills, Shop Fronts, Surrounds, Pilasters, Fireplaces, etc. Ask for these Technical Pamphlets:

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2. **Facings.**
3. **Coping.**
4. **Cills.**
5. **Riven Face Slabs.**

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Telephone: Coniston 225/6

TAYLOR WOODROW LIMITED

A RECORD YEAR

The Twenty-fifth Annual General Meeting of Taylor Woodrow Limited will be held in London on June 2. The following is an extract from the statement by the Chairman, Mr. Frank Taylor, which has been circulated with the Report and Accounts for the year ended 31st December, 1959:

Your Company celebrated its Twenty-fifth Anniversary as a Public Company on 1st February, 1960. I am happy to report that the progress of your Company during the year under review has been not unsatisfactory and the accounts show record profits.

Conditions affecting the Building and Civil Engineering Industry generally towards the end of 1959 were not unfavourable but the recent rise in the Bank Rate and the possibility of restrictions of credit facilities in the future may lead to a reduction in the volume of Building and Civil Engineering work available and consequently contracts of the right type may be more difficult to obtain. Apart from this, together with other Contractors we are finding in the United Kingdom competition is extremely severe. In every case where tenders are called for it would appear that one or two contractors are going in at figures well below actual cost; this is unsatisfactory because a Contractor is bound to produce the work according to the specification and up to the quality required, therefore he is entitled to have a fair price to cover the actual cost and a reasonable reward for his labour and 'know-how.'

ACCOUNTS

The profits for the year, after taxation, are shown at £702,812 which compares with £573,761 for 1958. I am pleased to report this increase in profits and also that the turnover of the Group for the year (not including Associated Companies) was £29½ million compared with £27 million for 1958. I should, however, again mention that the fact that many of our contracts extend over several years makes it appropriate that results should be judged over a number of years rather than on one year.

The Directors are recommending that for 1959 a final dividend be paid of 7½d. per share (less tax) on the present Issued Capital of 11,250,000 Ordinary shares.

AT HOME

Building and Civil Engineering—Another busy year on building and civil engineering work in the United Kingdom has produced good results.

At Hinkley Point we are working in association with English Electric and Babcock and Wilcox in the construction of a 500,000 Kw. Atomic Power Station. We are responsible for the civil engineering work which is progressing very well and is now more than two-thirds complete. This Team of three has also just tendered for another such station at Dungeness and is now working upon designs for the one at Sizewell.

Our civil engineering work at Northfleet and High Marnham Power Stations is now well advanced and at Cwm Rheidol we have just started a hydro-electric project comprising a dam, power station, shafts and tunnels. We are glad to have returned to London Airport during the year to construct aircraft standings and taxiways. Another contract deserving special mention is the new lighthouse at Dungeness—the first to be erected in this country for more than fifty years.

The Government has given further impetus to major roadworks, and, on our Wentbridge By-pass scheme in Yorkshire where our work includes the construction of a pre-stressed concrete viaduct, we are beginning to play a part in what we hope will be a great and imaginative programme.

After commenting on the progress of various other projects, the Chairman stated:

During the past year your Subsidiary Company, Myton Limited, has commenced work on further contracts in the London Area. Several important contracts have been completed during the year and continuing progress and expansion is being maintained.

House Building—Although output has been restricted by a severe land and brick shortage, steady progress has been made during the year.

Plant—The Group continues to make substantial purchases of Capital Equipment so that the efficiency of our building and construction activities will not be impaired.

ARCON EXPORT AND HOME

The sale and supply of Arcon Structures continued during 1959 with exports to 46 Overseas countries. In the United Kingdom 66 Arcon contracts were executed. 1960 is likely to show an overall improvement in our Arcon trading nothwithstanding keenly competitive conditions.

OVERSEAS

Australia—Considerable progress has been made towards expanding our Australian Company's interests, and the future now appears much more encouraging.

Canada—Our contracting company in this Dominion has continued to make progress and substantial contracts have been successfully completed during 1959.

West Africa—Continued progress has been made by our Associated Companies in Nigeria, Ghana and Sierra Leone.

GENERALLY

I would ask all those contemplating building and civil engineering work to consider the Tayplan 'Turnkey' form of contract which has great merit. If we are consulted at the beginning of a contemplated building project with regard to a turnkey contract, we have our own people together with other specialists who can form a Team which can plan, design, estimate and complete the project from drawing board to nameplate to the clients' own requirements of high standards of (a) quality, (b) economy and (c) speed of completion.

CHESHIRE
COUNTY.

ARCHITECT'S DEPARTMENT.
APPOINTMENT OF CHIEF ASSISTANT TO DISTRICT ARCHITECT FOR CHESTER AREA.

Applications are invited on forms obtainable from me for the above appointment on Grade A.P.T. III (£880-£1,065) in my district office at Chester. The person appointed will act as Chief Architectural Assistant to the District Architect and will deputise for him when necessary at Committees, etc. Applicants should be qualified.

EDGAR TABERNER,
A.R.I.B.A.,
County Architect.

County Hall,
Chester.
May, 1960.

BIRMINGHAM CITY
EDUCATION COMMITTEE.

(Repairs Branch.)

Appointment of TECHNICAL ASSISTANT, Misc. Grade V (salary—£670-£735 per annum). Applicants should have a general knowledge of the Building Trade and, preferably, some experience of measuring and estimating for the repair and redecoration of schools. Duties will include site measurement of work for the purpose of bonus assessment.

Applications, including details of age, education and experience, should be sent to the Chief Education Officer, General Purposes Branch, Education Department, Birmingham, 3, not later than FRIDAY, 20th MAY, 1960.

HUYTON-WITH-ROBY
URBAN DISTRICT COUNCIL.

ARCHITECTURAL AND HOUSING DEPARTMENT.

Applications are invited for posts in the above Department as follows:—

(a) SENIOR ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065-£1,220).

(b) ARCHITECTURAL ASSISTANT, Grade A.P.T. II (£765-£880).

Candidates for post (a) should be associate members of the R.I.B.A., and candidates for post (b) should have passed the Intermediate Examination of the R.I.B.A.

The work of the Department consists of a large Housing and Capital Works programme.

The appointments will be subject to the Local Government Superannuation Acts and the National Conditions of Service, and will be terminable by one calendar month's notice in writing on either side.

Applications stating age, qualifications and experience, together with the names of two persons to whom reference can be made should reach R. T. Chappelle, A.R.I.B.A., Architect and Housing Director, Archway-road, Huyton, not later than MONDAY, 23rd MAY, 1960.

Canvassing disqualifies.

D. WILLGOOSE,
Clerk of the Council.

Council Offices,
Derby-road,
Huyton.

GOSPORT
BOROUGH.

JUNIOR QUANTITY SURVEYOR.

Applications are invited for the above appointment—Grade A.P.T. I (£610-£765 per annum).

The successful applicant would be required to assist in the preparation of Bills of Quantities, Valuations and measurement of works in progress and settlement of Final Accounts.

The appointment is superannuable, subject to the National Scheme of Conditions of Service, a Medical examination, and one month's notice on either side.

Applications giving age, full details of experience and the names of two referees should be forwarded to the undersigned, to be received by not later than first post TUESDAY, the 24th MAY, 1960.

EDWARD ADDENBROOKE,
Town Clerk.

Town Hall,
Gosport.
5th May, 1960.

FAREHAM
URBAN DISTRICT COUNCIL.

(Population 58,000. Area 18,000 Acres)
ARCHITECTURAL ASSISTANT.

Applications invited for above appointment in Architects' Section of Engineer and Surveyor's Department. Salary Grade A.P.T. I (£610-£765).

Candidates must have suitable experience and a sensitive approach to modern design and have passed the Intermediate R.I.B.A. examination or its equivalent at one of the recognised schools of architecture.

Appointment is superannuated and subject to the National Scheme of Conditions of Service, a satisfactory medical examination, and one month's notice on either side.

Applications stating age, qualifications and experience and past and present appointments, with names and addresses of two referees, to Engineer and Surveyor, Westbury Manor, West-street, Fareham, Hants, by 31st MAY, 1960.

B. W. RANDS,
Clerk to the Council.

"Merton,"
5 Grove-road,
Fareham,
Hampshire.

LEYTON
BOROUGH
(in the County of Essex).

COMMITTEE FOR EDUCATION.
APPOINTMENT OF
ARCHITECTURAL ASSISTANT.

Applications are invited for the permanent appointment of ARCHITECTURAL ASSISTANT, Grade A.P.T. II, £765-£880 per annum, plus London Weighting. The successful applicant will be employed by the Essex County Council, and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10. Five-day week is operated.

Details and forms of application from the Borough Education Officer, Education Offices, Kirkdale-road, Leytonstone, E.11, to whom they should be returned within 10 DAYS from the appearance of this advertisement.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10.

TAUNTON
BOROUGH.

ASSISTANT ARCHITECT.

Applications invited for appointment of two ASSISTANT ARCHITECTS in the Borough Architect's Department, Special Grade, salary £785-£1,070 per annum.

Superannuable post, subject to medical examination, and to National Conditions of Service. Applications stating age, present position and salary, qualifications, experience and names of two referees to be sent to C. Bacon, F.R.I.B.A., Borough Architect, Flook House, Station-road, Taunton, by MONDAY, 30th MAY, 1960.

Consideration will be given to housing accommodation if required.

K. A. HORNE,
Town Clerk.

BETHNAL GREEN
METROPOLITAN BOROUGH.

BUILDING WORKS MANAGER AND SUPERINTENDENT Required for Direct Labour Building Section. Salary Scale A.P.T. IV, £1,065-£1,220 plus London Weighting.

Particulars and forms of application from Town Clerk, Town Hall, Bethnal Green, E.2, to whom completed forms must be returned by NOON on 30th MAY, 1960.

WESSEX
REGIONAL HOSPITAL BOARD.

Applications are invited for the following posts in the Board's Architects Department to deal with a substantial expansion of its hospital building programme:

(a) ASSISTANT REGIONAL ARCHITECT (£1,775 x £50(1) x £75(2) x £100(1)-£2,075). To be responsible for work on major schemes and if necessary to act as liaison to firms of private Architects commissioned by the Board.

(b) PRINCIPAL ASSISTANT ARCHITECT (£1,665 x £50(1) x £75(2) x £85(2)-£2,035).

(c) SENIOR ASSISTANT ARCHITECTS (£1,300 x £60(5)-£1,600).

(d) ASSISTANT ARCHITECTS (£905 x £35(1) x £45(6) x £50(2)-£1310).

Applicants must be Registered Architects. Previous hospital experience is not essential as the successful candidates for the senior posts will be given the opportunity of attending a postgraduate training course at the R.I.B.A. from the 11th to 16th JULY, 1960, followed by other courses later in the year.

The work offers excellent opportunity for gaining experience in the whole field of hospital architecture and covers all stages from sketch plans to the supervision of construction. The proposed expansion of the Board's building programme ranges from major adaptation schemes to comprehensive new hospital projects and includes all types of medical ancillary departments and domestic buildings.

(e) PRINCIPAL ASSISTANT ENGINEER (£1,665 x £50(1) x £75(2) x £85(2)-£2,035).

(f) ASSISTANT ENGINEERS (MECHANICAL) (£910 x £35(1) x £40(2) x £45(5) x £50(7)-£1,600).

Candidates for post (e) must be Corporate Members of the Institution of Mechanical Engineers. For posts (f) preference will be given to applicants who are Corporate Members of the Institution of Mechanical Engineers and the starting salary for candidates holding this qualification will be £1,160 per annum. Applications will be considered from Members of the Institute of Heating and Ventilating Engineers but the maximum will be restricted to £1,400 per annum. For Graduate Members of the Institution of Mechanical Engineers the maximum is £1,205 per annum.

These appointments offer an excellent opportunity for gaining experience in the installation of mechanical engineering services in new hospital buildings or the replanning of existing services for major adaptations.

Applications stating age, qualifications and experience, with names of three referees to the Secretary, Highcroft, Romsey-road, Winchester, by the 25th MAY, 1960.

NEWCASTLE REGIONAL HOSPITAL BOARD

REGIONAL ARCHITECT—P. H. KNIGHTON, M.B.E., A.R.I.B.A.

HOSPITAL EXPANSION PROGRAMME

APPOINTMENT OF ASSISTANT REGIONAL ARCHITECT

In connection with a considerable number of major projects to be carried out as part of the Hospital Expansion Programme, the Board invites applications for the post (superannuable) of ASSISTANT REGIONAL ARCHITECT at the salary scale of

£1,825 — £2,175.

Applicants must be Registered Architects, having passed the requisite examinations, should be particularly well versed in the design and execution of major building projects and the control of staff.

Previous hospital experience is not essential as it is hoped that the successful applicant will be able to attend a post-graduate course to be held at the R.I.B.A., early in July and possibly a further course later in the year.

Applications stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the

SECRETARY TO THE BOARD,
BENFIELD ROAD, NEWCASTLE-UPON-TYNE, 6,

not later than the 25th May, 1960.

LINCOLNSHIRE.
HOLLAND COUNTY COUNCIL.

COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from qualified ARCHITECTS to fill three vacant posts on Grade A.P.T. IV, £1,065-£1,220 per annum.

The Council have a varied and interesting programme.

The appointments will be subject to the provisions of the Local Government Superannuation Acts, the N.J.C. Scheme of Conditions of Service and a medical examination.

The County Council would consider making a contribution towards the cost of removals.

Forms, obtainable from the County Architect, should be returned to the undersigned by 25th MAY, 1960.

H. A. H. WALTER,
Clerk of the County Council.

County Hall,
Boston, Lincs.

BEXLEY
BOROUGH.

ARCHITECTURAL DRAUGHTSMAN.

Applications are invited for this APPOINTMENT at a salary within Grade A.P.T. I (£610-£765 per annum) plus London Weighting.

Applicants should be good draughtsmen and have a general knowledge of building construction and specification work.

Form of application and conditions of appointment are obtainable from Borough Engineer, West Lodge, Broadway, Bexleyheath, to whom completed applications must be returned by MONDAY, 30th MAY, 1960. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

GLAMORGAN
COUNTY COUNCIL.

Require a RESIDENT ENGINEER for a period of approximately 18 months to supervise the erection of new buildings and adaptations at the Glamorgan Training College, Barry (estimated cost of approximately £450,000). Duties to commence probably at the end of June and assistance will be given by a Clerk of Works.

Applicants must have had considerable experience in the supervision and construction of reinforced concrete structures, the quality control of concrete, and have a sound knowledge of good general building construction. Preference will be accorded to applicants who are Chartered Civil or Structural Engineers.

Salary £1,300 p.a., plus either a weekly lodging allowance or daily travelling expenses.

Applications giving age, qualifications, training and experience, together with names of two referees to the County Architect, County Hall, Cardiff. Closing date 30th MAY.

RICHARD JOHN,
Clerk of the County Council.

LANARK
COUNTY COUNCIL.

QUANTITY SURVEYOR required for County Architect's Department at Motherwell. Must be A.R.I.C.S. (Quantities Sub-Division) and have had experience of estimating, scheduling, preparing progress payments and of preparation of Final Measurements for large public works. Salary scale £1,197-£1,260. Medical Examination. Superannuation. No canvassing. Applications stating age, qualifications and experience together with names and addresses of three referees should be lodged with County Clerk, P.O. Box No. 1, Glasgow, by 25th MAY, 1960.

YORKSHIRE.
EAST RIDING COUNTY COUNCIL.

Applications are invited for the appointment of ASSISTANT ARCHITECTS on the staff of the County Architect.

The salary will be in accordance with the N.J.C. Special Scale (£785 to £1,070 per annum).

Applications, giving particulars of qualifications, experience, age, past and present appointments with salaries, together with the names of three referees, should be sent to the County Architect, County Hall, Beverley, not later than FRIDAY, 27th May, 1960.

Assistance towards removal, lodging and travelling expenses may be granted.

THOMAS STEPHENSON,
Clerk of the Council.

LIVERPOOL
REGIONAL HOSPITAL BOARD.

QUANTITY SURVEYING ASSISTANT.
Salary £625-£900.

Applications invited for this post on the staff of the Regional Architect, T. Noel Mitchell, B.Arch., F.R.I.B.A. The post is superannuable and applicants should have passed the intermediate examination of the Royal Institute of Chartered Surveyors or an examination giving exemption therefrom.

Applications to me within TEN DAYS, giving age, qualifications, details of present post and salary, previous appointments and names and addresses of three referees (two technical).

VINCENT COLLINGE,
Secretary to the Board.

55 Castle-street,
Liverpool, 2.

FRIMLEY AND CAMBERLEY
URBAN DISTRICT COUNCIL.

Applications are invited for the following appointments in the Engineer and Surveyor's Department.

The Urban District is a rapidly growing one, both as regards private enterprise and local authority development (the Council have recently commenced work on the erection of houses to receive overspill population and are now considering a central area redevelopment scheme).

(A) ASSISTANT PLANNING OFFICER, Grade III (£880-£1,065 p.a.). Applicants should have had experience in the practical control of development, and preference will be given to applicants who have passed, or are actively studying for, the examinations of the Town Planning Institute, or equivalent qualification.

(B) SENIOR ENGINEERING ASSISTANT, Special Grade (£785-£1,070 p.a.). Applicants should have had a good general experience in municipal engineering, and preference will be given to applicants possessing an appropriate qualification.

In each case the commencing salary will be in accordance with qualifications and experience. Housing accommodation will be made available if required and reasonable removal expenses will be paid. Both appointments will be subject to the National Conditions of Service and the Local Government Superannuation Acts.

Applications stating age, qualifications and experience, and giving the names of two persons to whom reference can be made, should reach the Engineer and Surveyor, Municipal Buildings, Camberley, not later than the 23rd MAY, 1960.

K. S. HARVEY,
Clerk of the Council.

Municipal Buildings,
London-road,
Camberley,
Surrey.
7th May, 1960.

BIRMINGHAM CITY
PUBLIC WORKS DEPARTMENT.

MECHANICAL AND PUBLIC LIGHTING SECTION.

Applications are invited for the post of PRINCIPAL ASSISTANT ENGINEER (Mechanical, Heating and Ventilation).

Salary in accordance with salary scales for senior officers—Grade "B" £1,305-£1,485 per annum.

Applicants must be Associate Members of the Institution of Mechanical, Electrical or Heating and Ventilating Engineers or hold the Higher National Certificate in Mechanical or Electrical Engineering (with five years' experience).

The duties of the post include the design of mechanical and heating services and installations in civic buildings, municipal offices, multi-storey flats, car parking garages, fire and police stations, schools, baths, salvage destructor plants, pump stations, etc.

Candidates must have had experience in the design, specification and supervision of contracts associated with the above work and be experienced in the supervision and control of staff.

The appointment is permanent, superannuable and subject to a medical examination.

Applications endorsed "Principal Assistant Engineer," stating qualifications, age and experience, together with the names of two referees should reach the undersigned not later than the 28th MAY, 1960.

Canvassing disqualifies.

HERBERT J. MANZONI,
City Engineer and Surveyor.

Civic Centre,
Birmingham, 1.
2nd May, 1960.

SOUTHPORT
COUNTY BOROUGH.

Applications are invited for the undermentioned appointments in the Borough Architect and Town Planning Officer's Department :—

(a) CHIEF ASSISTANT ARCHITECT, Grade A.P.T. IV, salary £1,065-£1,220. Applicants should be Registered Architects and/or Associates R.I.B.A.

(b) ASSISTANT ARCHITECT, Special Grade, salary £785-£1,070. Applicants should be Registered Architects and/or Associates R.I.B.A.

(c) ARCHITECTURAL ASSISTANT, Grade A.P.T. I, salary £610-£765. Applicants should have passed the intermediate R.I.B.A. examination.

(d) TEMPORARY TOWN PLANNING ASSISTANT, Special Grade, salary £785-£1,070. Applicants should be capable, with minimum supervision, of undertaking the first review of the Town Development Plan which includes: Land Use Survey of the Borough, Preparation of Maps and Tables, Revision of Written Analysis and Written Statement.

(e) TEMPORARY TOWN PLANNING ASSISTANT, Grade A.P.T. I, salary £610-£765. The successful applicant will be required to assist on the work of the Town Development Plan review, and should have a reasonable standard of draughtsmanship.

Note: Successful applicants for Temporary Posts (d) and (e) will be required for at least two years.

Application forms may be obtained from the Borough Architect and Town Planning Officer, 99-105 Lord-street. Closing date for the receipt of applications is 28th MAY.

PADDINGTON
BOROUGH COUNCIL.

BUILDING SURVEYING ASSISTANT, £650-£805 (A.P.T. I).

Starting salary according to qualifications and experience which should include repair, adaptation and conversion of civic and residential properties. Candidates should be capable of preparing plans, specifications, costs. Five-day week. Applications stating age, qualifications, present and past appointments, names of two referees should reach me by 23rd MAY, 1960 (quoting A.475).

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington, W.2.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments on the establishment of the Borough Engineer and Surveyor's Department :—

ARCHITECTURAL ASSISTANTS, A.P.T. I (£640 to £795 p.a.) *or* A.P.T. II (£795 to £910 p.a.). Vacancies in design groups dealing with mixed housing and other development. Applicants should possess Intermediate R.I.B.A. for A.P.T. II.

If under 26 years of age, the salaries will be £10 per annum less.

Please indicate clearly the grade applied for.

Council's Conditions of Service and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date FIRST POST on 8th JUNE, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(Near Elephant & Castle Underground Station),
Walworth-road, S.E.17.

HARLOW
URBAN DISTRICT COUNCIL.

Require an ASSISTANT HOUSING SUPERINTENDENT (TEMPORARY).

Salary within A.P.T. I. (£610-£765). Appointment subject to medical examination.

Applications from persons, experienced in the building trade and capable of preparing schemes, plans and estimates in connection with a three-year programme for the modernisation of Council Houses. The person appointed will also be required to supervise the carrying out of the work by the Council's Direct Labour Organisation. Although the appointment is temporary there is a possibility of advancement and permanency at the completion of the programme.

Housing accommodation will be made available if necessary and removal expenses paid.

Applications in writing, giving names of two referees, to be made to the Engineer and Surveyor, A. W. R. Webb, A.M.I.C.E., M.I.Mun.E., Netteswell Hall, Harlow, Essex, not later than WEDNESDAY, 25th MAY, 1960.

MINISTRY OF HOUSING

AND LOCAL GOVERNMENT Require QUANTITY SURVEYING ASSISTANT, Grade III (unestablished). Duties include cost analysis of Bills of Quantities, Working-up and general technical assistance in interesting new programme of research and development. Qualifications: C. & G. Final Certificate (Section A and B) in Builders Quantities *OR* O.N.C. in Building *OR* Licentiate Diploma of the Institute of Builders *OR* Proof of professional study to equivalent standard. Candidates should have had 5 years' experience (including full time approved course of training at technical school) with a quantity surveyor, building contractor, government department or local authority. London salary (men) £720 (at age 26) rising to £900. Women's pay slightly lower until 1st January, 1961. 5-day week. Write giving age, full details of experience and qualifications, to Manager (P.E.1501), Ministry of Labour, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4.

SOUTH WEST
METROPOLITAN REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

Due to an expansion in the hospital building programme the undermentioned permanent appointments are being made:

(i) ASSISTANT ARCHITECTS, £905 x £35(1) x £45(6) x £50(2)-£1,310 p.a.

(ii) QUANTITY SURVEYING ASSISTANT, £625 x £30(8) x £35(1)-£900 p.a.

(iii) SURVEYOR'S CLERK, £500 x £25(8)-£700 p.a.

London Weighting Allowance paid in addition.

Applicants for (i) must be Associate Members of the R.I.B.A., for (ii) must have passed the Intermediate examination of the R.I.C.S., and for (iii) must have had three years' technical experience in quantity surveying with a quantity surveyor or building contractor.

Application forms may be obtained from the undersigned at the Board's Headquarters at 40 Eastbourne-terrace, London, W.2, to whom they must be returned by 23rd MAY.

E. G. BRAITHWAITE,
Secretary.

SALFORD CITY

DIRECT WORKS DEPARTMENT.

Applications are invited from suitable qualified persons for the following appointment in the above Department :—

MAINTENANCE SUPERINTENDENT.

Applicants must have had considerable experience in the building trade and must be capable of administrating and supervising the Maintenance Section of the Department. This Section employs 300 men engaged upon the maintenance of all Council properties, including Public Buildings, Houses, Schools, Clinics, etc., and, in addition, he will be required to supervise the construction of small new buildings.

The person appointed must be capable of preparing details of labour, etc., for estimate purposes, have a knowledge of incentive payments, as a comprehensive bonus system is operated on various classes of work.

Previous experience with a Local Authority is not essential, but experience with a large Maintenance Organisation will be an advantage, as will some experience of the control of building trade workshops.

Grade A.P.T. III.

The commencing salary, according to experience, will be within the range of £880-£1,065 per annum.

This post is superannuable and subject to a medical examination.

Casual car user allowance is payable.

Housing accommodation may be considered in approved circumstances.

Applications, giving details of present and previous appointments, qualifications and experience, together with the names and addresses of two referees, should be sent to the General Manager, Direct Works Department, Unwin-street, Crosslane, Salford 5, so as to be received not later than 10 a.m. on MONDAY, 23rd MAY, 1960.

R. RIBBLESDALE THORNTON,
Town Clerk.

NOTTINGHAM CITY.

APPOINTMENT OF CITY ARCHITECT.

The Corporation is considering the establishment of an ARCHITECTURAL DEPARTMENT and the appointment of a CITY ARCHITECT who will be responsible for the Corporation's Architectural and Building work.

Architects of experience are invited to apply. If an appointment is made it will be at a salary of £3,340 rising by one increment of £115 and two further increments of £110 to £3,675 per annum, and the gentleman appointed will be required to contribute to the Corporation's Superannuation Scheme and to pass a medical examination.

Applications accompanied by the names of three persons to whom reference can be made must be delivered to me not later than the LAST POST on MONDAY, 13th JUNE in an envelope endorsed "City Architect."

T. J. OWEN,
Town Clerk.

The Guildhall,
Nottingham.

LIVERPOOL
UNIVERSITY.

DEPARTMENT OF BUILDING SCIENCE.

DIPLOMA IN BUILDING SCIENCE.

A full time course consisting of lectures, laboratory and drawing office work, leading to the Diploma in Building Science will be offered by the University in Session 1960-61. The course will extend over three terms commencing in October, 1960. Applications for admission are invited from persons of graduate status in Civil Engineering, Architecture or Building. Further particulars may be obtained from the Registrar, The University, Liverpool, 3.

CARLISLE CITY.

Applications are invited from QUALIFIED ARCHITECTS to work on an interesting building programme. There are three posts which offer scope for initiative and imagination and an opportunity to carry projects through from sketch design to completion. Salary range A.P.T. IV £1,065-£1,220 per annum. Housing accommodation considered.

Application forms together with further particulars can be obtained from The City Engineer, 18 Fisher-street, Carlisle.

H. D. A. ROBERTSON,
Town Clerk.

SHEFFIELD CITY.

CITY ARCHITECT'S DEPARTMENT.
APPOINTMENT OF SENIOR ASSISTANT QUANTITY SURVEYOR.

A.P.T. IV (£1,065-£1,220).

Applications are invited from appropriately qualified QUANTITY SURVEYORS for the above appointment in the Quantity Surveyor's Section of the City Architect, Mr. J. L. Womersley.

Commencing salary within the above grade commensurate with the successful applicant's qualifications and experience.

Assistance with housing accommodation and removal expenses will be given if required, in suitable cases.

A five-day week is now in operation.

Applications stating age, education, training, qualifications, experience, present and past appointments (with dates and salaries) and the names and addresses of two referees should reach me by the 23rd MAY, 1960.

JOHN HEYS,
Town Clerk.

Town Hall,
Sheffield, 1.
5th May, 1960.

INDUSTRIAL
ORTHOPAEDIC SOCIETY.

THE MANOR HOUSE HOSPITAL, NORTH END-ROAD, GOLDERS GREEN, N.W.11.

An experienced CLERK OF WORKS of proved ability Required for extension project. Anticipated started date June, 1960. Contract period about two years.

Write, giving full details of experience, salary required, availability and references, to W. F. Pendrill, General Secretary, The Manor House Hospital, Golders Green, N.W.11.

MIDDLESBROUGH
EDUCATION COMMITTEE.

ARCHITECTURAL STAFF.

Applications are invited for the following vacancies in the Education Architect's Office of the Education Department. An excellent opportunity is offered for participation in the expanding Educational Building Programme. Appointments will be made within the grades as indicated, subject to qualifications and experience.

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. IV, £1,065-£1,220.

(b) ASSISTANT ARCHITECTS, A.P.T. III, £880-£1,065.

(c) ARCHITECTURAL ASSISTANTS, A.P.T. I-II, £610-£880.

Housing accommodation will be considered for married applicants for posts (a) and (b) if required. Application forms and particulars from the Director of Education, Education Offices, Woodlands-road, Middlesbrough, to whom completed forms should be returned as soon as possible.

WORCESTER CITY.

PROPOSED GIRLS' GRAMMAR SCHOOL AND PROPOSED TEACHERS' TRAINING COLLEGE.
APPOINTMENT OF CLERKS OF WORKS.

Applications are invited for these two TEMPORARY APPOINTMENTS from men who have had considerable experience in the building trade. Work on both projects has very recently commenced and is expected in each case to take approximately two years to complete.

The salary for the appointments is £1,000 per annum.

The successful candidate will be required to undergo a medical examination.

Applications stating age, qualifications and experience and giving the names of two referees are to be addressed to the City Engineer and Surveyor, 22 Bridge-street, Worcester, so as to reach him by 17th MAY.

BERTRAM WEBSTER,
Town Clerk.

Guildhall,
Worcester.

TORQUAY
BOROUGH.

APPOINTMENT OF ASSISTANT BUILDING INSPECTOR.

Applications are invited for the post of ASSISTANT BUILDING INSPECTOR on Grade A.P.T. I (£610-£765).

Applicants should have knowledge of building construction and plans. Housing accommodation considered in suitable cases. Removal expenses paid if appropriate. Car allowance.

The appointment is subject to the passing of a medical examination, to one month's notice on either side, to the Local Government Superannuation Acts and to the National Scheme of Conditions of Service.

Applications, giving particulars of age, qualifications and experience, together with the names of two referees, should be sent to the Borough Engineer, Town Hall, Torquay, not later than WEDNESDAY, 25th MAY, 1960.

T. ELVED WILLIAMS,
Town Clerk.

Town Hall,
Torquay.

SOUTHWARK
METROPOLITAN BOROUGH.

Applications are invited for the following appointments in the Borough Engineer and Surveyor's Department :—

(a) QUANTITY SURVEYING ASSISTANT, A.P.T. IV (£1,095 to £1,250). Candidates must be qualified and experienced for duties including Taking-off for housing schemes with multi-storey flats, preparing bills of quantities, specifications and estimates. Unestablished post.

(b) QUANTITY SURVEYING ASSISTANT, A.P.T. II (£795 to £910). Candidates must be qualified to Intermediate level and experienced in assisting with Taking-off, abstracting and billing, and the supervision of contract works in progress. Permanent post.

If under 26 years of age, the salaries will be £10 per annum less.

Please indicate clearly the post and grade applied for.

Council's Conditions of Service of Officers and Superannuation Scheme apply. Medical examination. No housing. Canvassing will disqualify. Further particulars from the undersigned. Closing date FIRST POST on 8th JUNE, 1960.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(near Elephant and Castle Underground Station),
Walworth-rd., S.E.17.

EAST HAM
COUNTY BOROUGH.

APPOINTMENT OF SENIOR SURVEYING ASSISTANT—HOUSING DEPARTMENT.

Applications are invited. Salary in accordance with Grade A.P.T. III (£880-£1,065 per annum) plus London Weighting.

Applicants should have passed the final examination of the Royal Institution of Chartered Surveyors (Building Sub-Division), have had experience of supervision of housing contracts and be competent draughtsmen.

Further particulars and application form (returnable by 25th MAY, 1960) from the Town Clerk, Town Hall, East Ham, E.6.

WILLESDEN
BOROUGH.

Applications are invited for the appointment in the Building Works Section of the Borough Engineer and Surveyor's Department of INCENTIVES OFFICER, salary within Grade A.P.T. II (£765-£880) p.a. plus London Weighting, maximum £30 p.a. Candidates should have had experience in Bonus Surveying new buildings including measurement and agreeing targets.

The Council cannot assist with housing.

Further details and application forms obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6, to be returned by 10 a.m. on MONDAY, 30th MAY, 1960.

GUIDE TO BUYING AND SPECIFICATION

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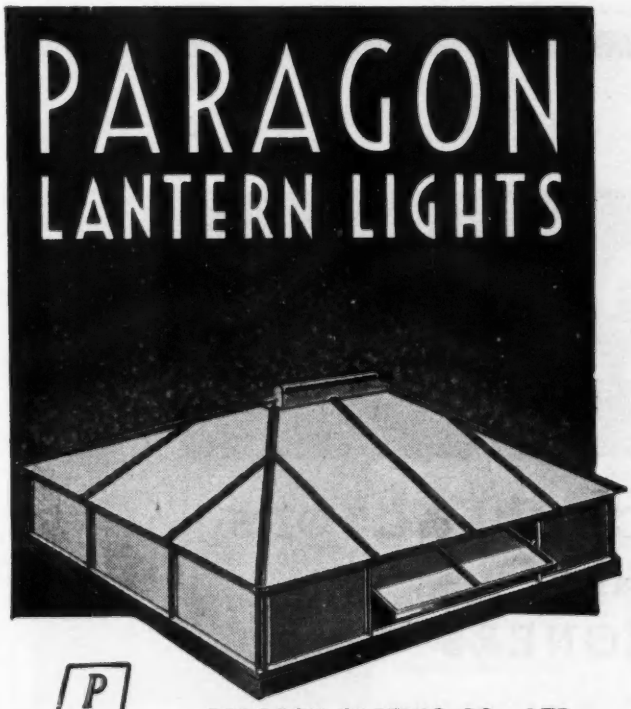

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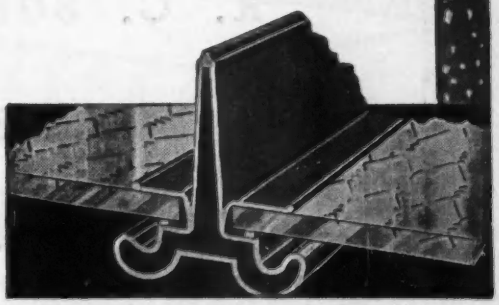

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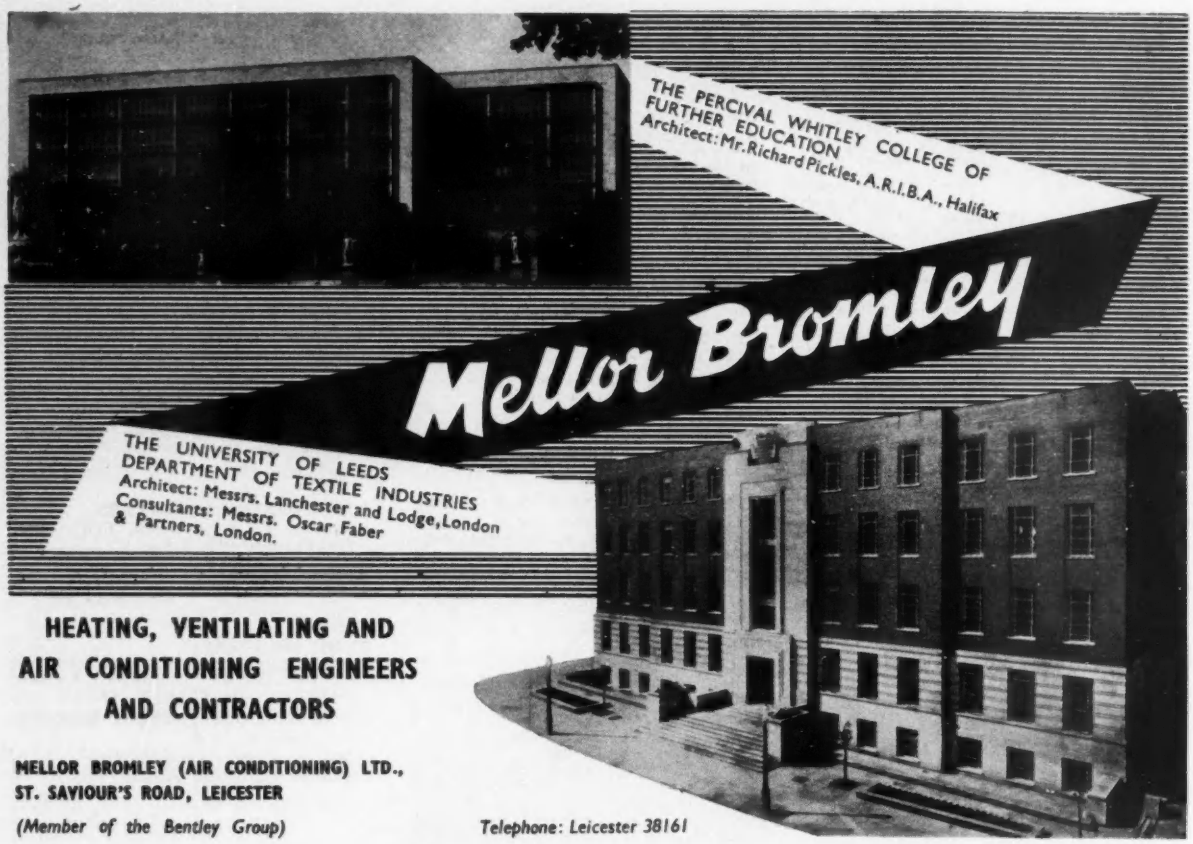

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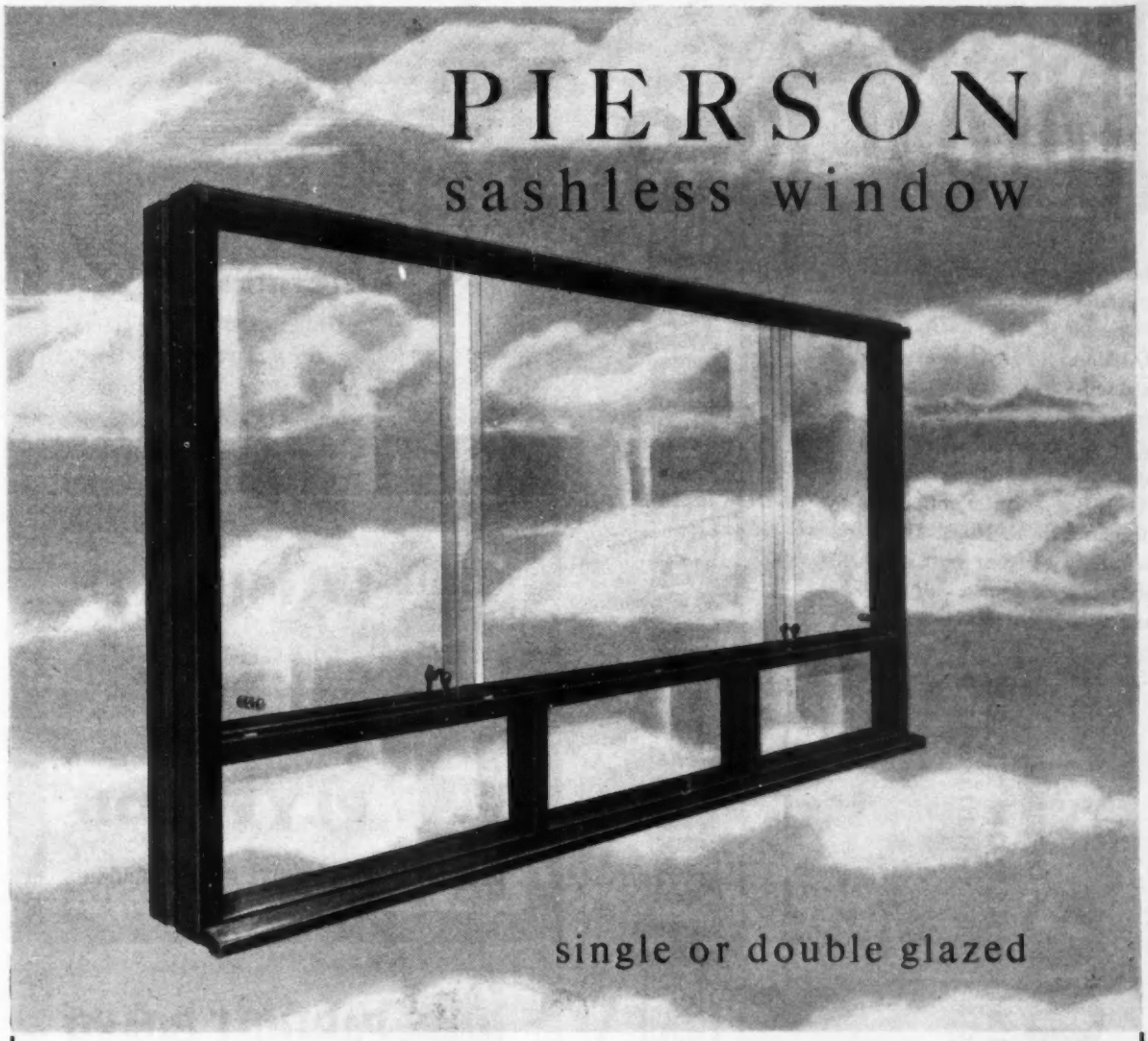

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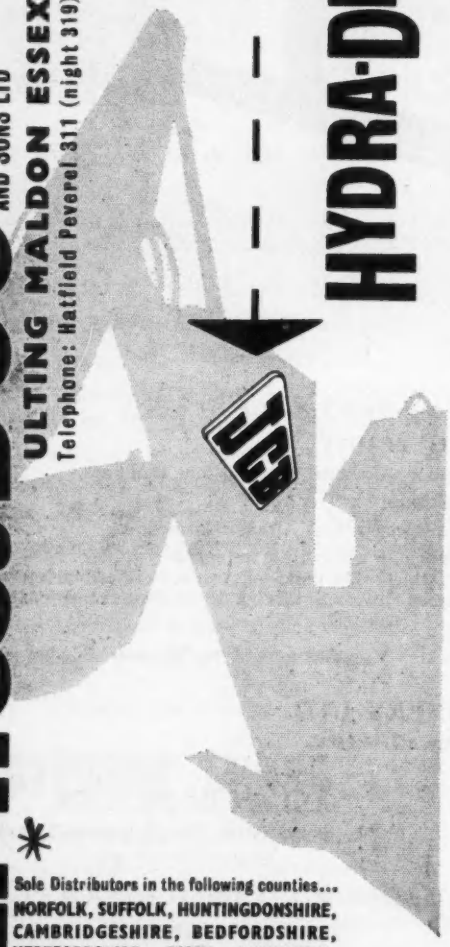

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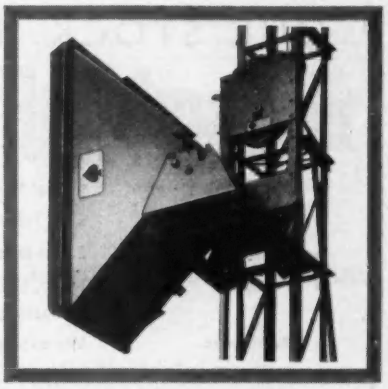

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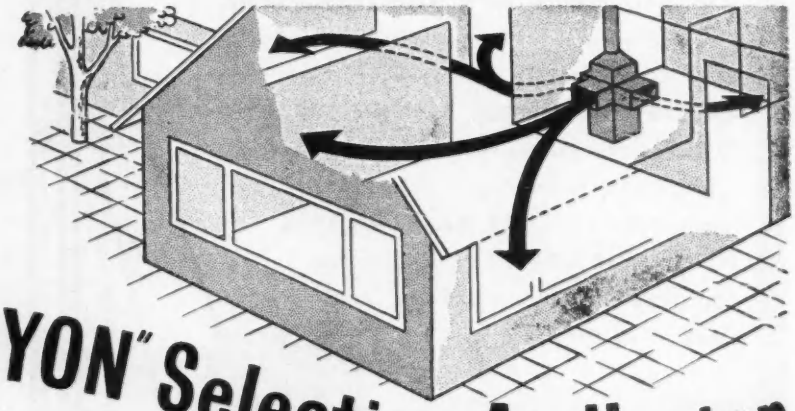

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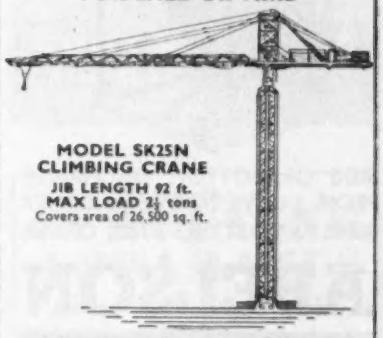

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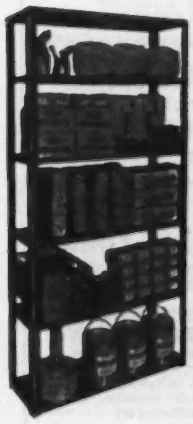

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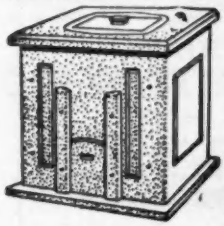

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SHOP FITTING DRAUGHTSMAN Required for preparation of lay-outs for new Super-Markets. Varied and interesting work. 5-day week. Staff canteen.—Apply, in writing, to COOPER & CO.'S STORES, Ltd., 90-102 Edgware-road, London, W.2, for the attention of Mr. E. M. West, giving details of experience. Salary about £750 per annum, depending on experience.

DRAUGHTSMAN/BUILDING SURVEYOR Required for medium sized Architects' office with varied practice. Salary £700/£900 per annum, according to experience.—Apply, DOWTON & HURST, 10 Portman-street, W.1. HYD 1822.

COURTNEY, POPE LTD.,
have vacancies for qualified
SHOPFITTING
DESIGNER/DRAUGHTSMEN
Salary according to ability. Write first, giving full particulars, to the Managing Director.

BUILDING DRAUGHTSMAN, aged 21 to 30, with at least 3 years' Drawing Office experience, preferably of building projects of an industrial nature. Minimum qualification O.N.C. (Building) or equivalent. Up to 25 years of age salary will be as per A.E.S.D. scale, over 25 according to qualifications and experience. This appointment is permanent and pensionable and a 5-day, 40-hour week applies. —Please write, stating age, qualifications and experience, to SP.A Dept., MICHELIN TYRE CO., Ltd., Stoke-on-Trent, quoting Reference B/527/TB.

ARCHITECTURAL DRAUGHTSMAN Required in Luton office, with minimum of three years' training, and capable of undertaking work of a varied nature, including nominal supervision on site. Pension scheme in operation after probationary period.—Apply in first instance with details of experience and salary required, etc., to Box 3039, "The Builder."

JUNIOR CIVIL ENGINEERING DRAUGHTSMAN with Surveying experience Required by HARRY BROMPTON & PARTNERS, Consulting Engineers, 7 Hobart-place, Westminster, S.W.1. Salary according to experience, staff pension scheme and holiday arrangements honoured.—Apply in writing stating age and full details of experience.

SHOPFITTING DRAUGHTSMAN
required for Established firm in Cardiff. Experienced in preparation of coloured perspective drawing and planning of shop interiors for all types of retail businesses. Salary £1,000 per annum. Please forward full details including past experience with application to:
HYDE & JENKS LTD.,
Shopfitters,
Vere Street, Cardiff.

DRAUGHTSMAN
required for London Office, experience in artificial stone an advantage. Non-contributory Pension Scheme. 5-day week. Holiday arrangements respected. Write, stating age, experience and salary required, to:
Messrs. J. A. King & Company Ltd.,
of
181, Queen Victoria Street,
London, E.C.4.

SHOPFITTING
DESIGNER DRAUGHTSMAN
Good Artist
Experienced Detailing
Top Wages
Phone: MR. B. MYERS, CLE 6381

QUANTITY SURVEYORS

BIRMINGHAM QUANTITY SURVEYORS Require qualified SENIOR ASSISTANT. Salary range £1,250-£1,500 per annum according to experience.—Box 2974 "The Builder."

QUANTITY SURVEYOR with thorough experience of final account work Required by London Chartered Quantity Surveyors. Progressive post with good salary.—Apply, stating age, experience and salary required, to Box 909, "The Builder."

EXPERIENCED QUANTITY SURVEYOR (A.R.I.C.S. preferred) Required by DEARLE & HENDERSON, 7 Victoria-street, S.W.1. 5-day week, superannuation scheme.—Write or 'phone ABBey 2841

SITE MEASURING SURVEYOR Required for interesting and varied work.—Write stating age, experience and salary required, to FRANK N. FALKNER & PARTNERS, Chartered Quantity Surveyors, Windscale Works, Seascale, Cumberland, or telephone Seascale 462 for appointment.

ASSISTANT QUANTITY SURVEYOR Required by London firm of Quantity Surveyors having varied practice.—Please reply to Box 992, "The Builder."

QUANTITY SURVEYOR, with taking-off experience. Required for interesting and varied work in quantities department of busy architect's office. Superannuation scheme available, holiday arrangements honoured.—Please forward details of experience, date available and salary required, in confidence, to T. H. JOHNSON & SON, F/F.R.I.B.A., Architects, 6, South-parade, Doncaster.

SENIOR ASSISTANT, preferably chartered. Required by West End firm of Quantity Surveyors. Salary about £1,250 per annum.—Reply, stating age and experience, to Box 2886, "The Builder."

ASSISTANT QUANTITY SURVEYOR Required. Capable of taking-off and dealing with accounts. Large Midlands office. 5-day week. Pension scheme. —Reply, stating age, experience and salary required, Box 2876, "The Builder."

SITE QUANTITY SURVEYOR for long-term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply, stating age, experience and salary required, to Box 2928, "The Builder."

MARRIOTTS of the MIDLANDS
Experienced Quantity Surveyor required, aged 25—40 years, for contracts up to £500,000. Successful applicant would operate from Head Office. Excellent salary, plus bonus; also there is a non-contributory pension scheme in operation.
State experience, with written application, to:—
Robert Marriott Limited,
Midland Works,
RUSHDEN, Northants.

SENIOR QUANTITY SURVEYORS
Old established C. E. & B. Contractor has vacancies for several Senior Surveyors to handle an interesting expansion programme.
The positions are permanent, will carry a good salary and there is a pension scheme.
Applications should state past and present employment, salary, education, qualifications, age and when available and address to:
Wilson Lovatt & Sons Ltd.,
Clarence Street,
Wolverhampton.

QUANTITY SURVEYORS
Senior Quantity Surveyors required for interesting work in Preston office. Applicants should be Chartered Quantity Surveyors and should have had experience on large contracts. Permanent appointments with attractive pension scheme and top level salaries.
Full particulars of qualifications and present appointment and salary to:
Arnold E. Towler, A.R.I.C.S.,
Manfield Chambers,
117 Fishergate, Preston, Lancs.

TAKER-OFF/MEASURING SURVEYOR Required by Chartered Quantity Surveyors for Site Office, North Kent. Housing accommodation available.—Please write, stating age, experience and salary required, to Box 2929, "The Builder."

EXPERIENCED MEASURING SURVEYOR, for work at Port Talbot, Glam., Required by firm of Chartered Quantity Surveyors.—Apply, stating age, experience and salary required, to Box 2930, "The Builder."

ASSISTANT QUANTITY SURVEYOR, 22/24 years, Required by S.W.16 London Building Contractors to measure sub-contractor's accounts, site measurements, bonus surveying.—Apply stating age, experience and salary required to Box 2968, "The Builder."

AUSTRALIA. Vacancies for TAKERS OFF; see advert under heading "Takers-Off."

ASSISTANT QUANTITY SURVEYOR Required. Sound knowledge of construction essential. Varied and interesting work.—Particulars and salary required, to KENNETH G. BARBER, Chartered Quantity Surveyor, 16 Pampisford-road, Purley, Surrey.

THOMAS LOWE & SONS LTD.,
CURZON STREET,
BURTON UPON TRENT,
require
a
QUANTITY SURVEYOR
to handle an interesting variety of local contracts—must be experienced in dealing with remeasurement, variations and agreement of final accounts.
Age: 30–40
Assistance with housing

Experienced

BONUS AND COSTING SURVEYORS

Senior and Assistant required for Civil Engineering and Roadwork Contracts. Mobility essential. Write, stating age, previous experience and salary required to

Personnel Officer,
A. Monk & Company, Limited,
Padgate, Warrington, Lancs.

CUBITTS

MEASURING SURVEYORS

with experience of road-works required immediately for important works in the London area. Applications giving full personal details and experience should be sent to:—

Personnel Manager (B5475)
HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.,
1, Queen Anne's Gate, LONDON. S.W.1.

HARWELL

SITE MEASURING SURVEYOR. Long Term. Hostel if necessary, local transport, age, experience, salary required.

ALDERMASTON

SITE MEASURING SURVEYORS, senior and junior, use W.D. Schedule. Long term contract. Local transport, age, experience, salary required.

Apply: Secretary,
W. E. CHIVERS & SONS LTD.,
Head Office, Devizes, Wilts.

SUPERVISING SURVEYOR

(Age 30/35)

Alterations and Decorations (Small Works). Able to estimate and organise own contracts. Good salary and annual bonus on results. Free Pension Scheme.

Box No. 2446, "The Builder"

SITE QUANTITY SURVEYOR for long-term contract at Port Talbot, Glam., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Apply stating age, experience and salary required to Box 3080, "The Builder."

SENIOR ASSISTANT Required for London firm of Chartered Quantity Surveyors. Salary up to £1,350 per annum according to age and experience. L.Vs., five-day week. Overtime paid and pension scheme. —Please apply to Box 3082, "The Builder."

QUANTITY SURVEYOR Required by Building Contractor in South Wales branch office for final accounts on contracts up to £150,000. Excellent prospects with an expanding company.—Wm. EAVES AND CO. Ltd., 11 Quay-street, Haverfordwest, Pembrokeshire.

QUANTITY SURVEYOR Required by Building Contractors in Kilburn, N.W.6. Able to prepare quantities from drawings and work without supervision. The Company is engaged in large and varied projects all over the country. Pension scheme.—Write, giving details of experience and salary required, to Box 3083, "The Builder."

SURVEYORS

EXPERIENCED SITE SURVEYOR Required by professional firm of Quantity Surveyors in Westminster area for final accounts. Good salary and prospects. Five-day week. Luncheon Vouchers.—Apply, Box 2979, "The Builder."

LLEWELLYN SMITH & WATERS Chartered Architects, Require the following: (1) BUILDING SURVEYOR to prepare reports under the Ecclesiastical Dilapidations Measures; specifications for works of alteration and repair, and supervise medium-sized contracts. (2) CLERK OF WORKS to inspect work on large contracts, mainly industrial. This appointment will involve travelling. (3) QUANTITY SURVEYOR (not necessarily qualified) to deal with enquiries to sub-contractors.—Please apply, in writing, giving details of experience and salary required, to 103 Old Brompton-road, S.W.7.

SENIOR SURVEYORS AND ASSISTANTS, to be based in the Plymouth area and who are fully conversant with measuring and all other duties in connection with both large and small building projects are needed immediately.—Send details of your career, and salary required, to HUMPHREYS, Ltd., Market-road, Plympton, Devon.

SURVEYOR/ESTIMATOR, experienced, Required for small works department of the London branch of FASSNIDGE SON & NORRIS.—Reply, stating age, experience and salary required, to Head Office, 222 High-street, Uxbridge, Middlesex.

PLASTERING Contractors in South West London Require experienced MEASURING SURVEYOR. Good salary and permanent pensionable position for suitable applicant.—Write, stating age, experience and present salary to Box 975, "The Builder."

MEASURING SURVEYOR/TAKER-OFF for London Quantity Surveyors, able to handle Interim Valuations, Deviations and Final Accounts. Must be willing to travel. Salary according to experience and ability.—Box 934, "The Builder."

BUILDING SURVEYOR, Intermediate standard with minimum of two years' good office experience, Required for Architect's and Surveyor's office. Used to Specifications and small Building Contracts, some drawing ability an advantage. Five-day week, luncheon vouchers. Salary according to experience up to £700 per annum.—Please reply to Box 918, "The Builder."

SURVEYOR Required by old-established Contractors specialising in Reinforced Concrete and finishings of Tiling Marble and Terrazzo. Experienced in taking-off and measuring for final account. (Salary in the region of £1,000.) The position is permanent and pensionable.—Write fully, experience and age to Box 952, "The Builder."

SITE SURVEYOR Required by Chartered Quantity Surveyors, for Civil Engineering Contract in Yorkshire. Probationary period in London office.—Write, stating age, experience and salary required, to Box 956, "The Builder."

BUILDING SURVEYOR Required for medium-sized South London Builders. Able to take decisions and particularly competent to negotiate orders with sub-contractors, and complete final accounts. Only experienced man with initiative to work on own need apply. Modern offices and working conditions. Summer holidays respected. Pension scheme available.—Write strictest confidence stating experience, salary required, etc., Box 2719, "The Builder."

MESSRS. OSWALD E. FARRATT Require experienced MEASURING SURVEYOR for their Harlow office. Five-day week, pension scheme, service agreement to suitable applicant. Housing accommodation may be available. State age, experience and salary required to Adelaide House, London Bridge, E.C.4.

MEASURING SURVEYORS Required by Quantity Surveyors near London Bridge. Five-day week. Pension and Life Assurance scheme.—State age, experience and salary to Box 2730, "The Builder."

SENIOR ASSISTANT Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment, Superannuation scheme, Luncheon Vouchers, 5-day week. Good salary and prospects.—Write full particulars to Box 2734, "The Builder."

G. & C. WHITTLE LIMITED
PAINTING CONTRACTORS
require:

MEASURING SURVEYOR and ASSISTANT ESTIMATOR

Please write, giving full details of experience. All applications will be treated with the utmost confidence:

Cleveland Works,
Acton Green, W.4.

QUANTITY SURVEYOR

Senior Chartered Quantity Surveyor required by Consulting Engineers in connection with Major Building and Civil Engineering project. Applicants should have had varied experience in the profession. Preferred age over 30. Write stating brief particulars and salary required to

MERZ AND MCLELLAN,
Carliol House,
Newcastle-upon-Tyne, 1,
Quoting reference SAR.

SENIOR SURVEYOR and CONTRACTS MANAGER

required by

London Building Contractors.

Apply stating experience age and salary required.

Box 3005 'THE BUILDER'

R. Costain & Sons (Liverpool) Ltd.

BONUS and COSTING SURVEYORS

required for interesting work in the Merseyside area.

Excellent opportunities for conscientious men in an expanding department of the company.

Applications stating age, experience and salary required to

Box 1888
Lee and Nightingale, Liverpool.

TERSONS LIMITED
are seeking

SURVEYORS and ASSISTANT SURVEYORS

in the Manchester area, due to continued expansion.

Vacancies occur particularly in Lytham St. Anne's and Manchester.

Excellent salaries and conditions are offered, together with prospects of promotion to executive positions.

Apply in confidence, stating age, previous experience and employers to

Chief Surveyor,
Tersons Ltd.,
4 Dollis Park, London, N.3

SENIOR BONUS SURVEYOR

required at Watford Head Office to install and manage bonus scheme for multi-storey flats and civil engineering contracts up to £250,000. Salary in region of £1,200 per annum to man possessing right qualifications. Pension scheme in operation. Holiday arrangements for this year honoured.

Box No. 2981, 'The Builder'.

WILLIAM WILLETT (CONTRACTORS) LTD.

Require the following additional staff following a planned expansion of contract work.

LONDON OFFICE
SENIOR SURVEYOR/CONTRACTS MANAGER

Capable of Managing in all respects building contracts of up to £500,000 in value.

GENERAL FOREMAN (TWO)

Preferably carpenter and joiner by trade, experienced and capable of executing building contracts (including reinforced concrete work) to a high standard of efficiency and finish.

MEASURING SURVEYOR

Experienced in handling final accounts in all phases including sub-contractors' accounts.

TRAINEE or JUNIOR SURVEYOR (Two)

Limited or no previous experience required, but ambition and a sound basic education essential.

HOVE (Sussex) OFFICE
CONTRACT MANAGER

Practical background essential but with experience in controlling number of medium sized building and reinforced concrete contracts in conjunction with managing surveyor.

GENERAL FOREMAN (TWO)

As for London Office above except that for one post a man very experienced in reinforced concrete work will be required.

All the above positions are well paid, with the additional inducement of an annual bonus scheme, a superannuation scheme after a limited period of service, and excellent working conditions.

Apply, in the strictest confidence with the fullest possible details, to:

William Willett (Contractors) Ltd.
Sloane Square, S.W.1

ASSISTANT TO SENIOR SURVEYOR

required, site measuring bonusing final accounts. Good opportunity for keen young man Apply stating age, experience and salary required to:

J. M. Hill & Sons Ltd., Heather Park Drive, Wembley, Middx.

LESLIE & CO. LTD.
Contractors
require immediately

MEASURING SURVEYOR

for their London Head Office. Candidates should be experienced in valuations and site measuring up to Final Account. This post carries an attractive salary, good annual bonus and non-contributory pension scheme.

Apply in confidence to
The Chief Surveyor,
Peel Street,
Kensington,
London, W.8.

There are vacancies on the Staff of a

LONDON CONTRACTOR
for
MEASURING SURVEYORS

Work is interesting and varied giving a wide experience in many classes of building. There are good opportunities for promotion and salaries are reviewed regularly.

HOLIDAY ARRANGEMENTS FOR THIS YEAR WILL BE HONOURED

Staff bonus and Pension Scheme in operation. Successful applicants will be based at Head Office in the West End of London. Write for interview to Box No. 2610 giving age and experience.

SITE MEASURING SURVEYORS, fully experienced in W.D. Schedule Required by firm of chartered quantity surveyors in connection with A.M. contracts in South Midlands area. Permanencies offered to suitable candidates.—Write, stating age, experience and salary required, to Box 2779, "The Builder."

BUILDERS' SURVEYOR, 25-30, with minimum five years' recent experience in builders' office, should be capable and willing to undertake contracts from £10,000 to £500,000. All applications treated confidentially and acknowledged.—Send full details and salary required to PEAK CONSTRUCTION (LIVERPOOL) Ltd., Knight-road, Strood, Kent.

SURVEYOR Required by East Dulwich Contractors, able to prepare quantities from drawings and estimate for small works. Holiday arrangements respected. Good prospects for right man. State age, experience and salary.—Box 2796, "The Builder."

MATERIALS SURVEYOR REQUIRED in materials taking-off department of large Building and Civil Engineering Contractors. Experience in R.C. and Public Works an advantage.—Write, stating age, experience, etc., M. J. GLEESON (CONTRACTORS), Ltd., T.O. Dept., Haredon House, London-road, North Cheam, Surrey.

SURVEYOR/OUTSIDE SUPERVISOR. Alterations, conversions and small works. Interview clients and preferably able to assist with estimating. Commencing salary about £800.—J. & H. OTTKEY Ltd., Acre House, Victoria-street, Windsor.

SENIOR MEASURING SURVEYOR Required by Chartered Quantity Surveyors near Victoria Station. Salary £1,000 a year upwards according to experience. Pension scheme. Luncheon vouchers.—Write full particulars, to Box 2853, "The Builder."

SENIOR SURVEYOR capable of dealing with final accounts Required by reinforced concrete specialists in West London. Pension and bonus scheme. Canteen.—Box 2859, "The Builder."

JUNIOR ASSISTANT Required by Chartered Quantity Surveyors near Victoria Station for taking-off. R.I.C.S. Intermediate standard. Good salary and prospects. Superannuation scheme. Luncheon vouchers. 5-day week.—Write, full particulars, to Box 2878, "The Builder."

SENIOR AND JUNIOR MEASURING SURVEYORS Required by chartered quantity surveyors for work on large long-term interesting contract in N.W. England.—Please reply, stating age, experience and salary required, to Box 2899, "The Builder."

JUNIOR SURVEYOR, age 20/26, Required on permanent staff of London contractors for measuring sub-contractors and to assist and train under Senior Surveyors.—Apply, Box 2923, "The Builder."

BUILDERS' SURVEYOR for valuations, variations, final accounts, etc., of medium-size contracts in London and Essex. Holiday will be given this summer.—Apply, stating age and details of training and experience, to CHARLES S. FOSTER & SONS, Ltd., Loughton, Essex.

JUNIOR SURVEYOR Required for Chartered Quantity Surveyors' Ashford office.—Box 3022, "The Builder."

BUILDING SURVEYOR Required for Architects' office, capable of preparing schedules of dilapidations and specifications for alterations, additions and miscellaneous building works, together with site supervision.—Apply, in writing, stating qualifications, etc., to W. H. Watkins, GRAY & PARTNERS, 57 Catherine-place, S.W.1.

BONUS/COST SURVEYOR. Experienced man Required for contracts in London area. Permanent progressive position for suitable applicant. Knowledge of Work Study an advantage.—Apply, in writing, stating age, salary required, to WILSON LOVATT & SONS, Ltd., 16 Grosvenor-Crescent, London, S.W.1.

JUNIOR QUANTITIES ASSISTANT Required by WANDSWORTH BOROUGH COUNCIL. Opportunities for professional training to become Chartered Quantity Surveyor. Applicants should be holders of G.C.E. in five specific subjects. Commencing salary £345 at age 17. Forms from Borough Engineer, returnable by 30th May.—J. NOEL MARTIN, Town Clerk, Municipal Buildings, S.W.18.

BUILDING SURVEYOR Required for measuring up and quantities. Salary commensurate with experience.—Apply J. H. GRANGE & SON, Ltd., Building and Civil Engineering Contractors, Dursley. Tel. 2147.

BUILDERS' SURVEYOR Required. Must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc.; pension scheme.—Apply, in writing only, giving full particulars of age, experience, education and salary desired, to BRAZIER & SON, Ltd., 303-305 Portswood-road, Southampton.

BUILDING SURVEYOR TO FIRE LOSS ADJUSTERS. ELLIS & BUCKLE, Ltd., 44 Leadenhall-Street, London, E.C.3, Require two young (under 27) QUALIFIED SURVEYORS for their offices at Southampton and Bury St. Edmunds. The work entails dealing with people rather than documents, in negotiating settlement of claims for Underwriters concerning buildings, their contents and agricultural produce. Pension scheme. Medical scheme. Good prospects of rapid promotion.—Apply, to C. K. BUCKLE. Confidential, stating age, qualifications, school examinations and present salary.

ASSISTANT Required by London Surveyors for Specifications, accounts, working-up, etc. Write stating age, experience, salary required and when available, to Box 3055, "The Builder."

SURVEYOR Required for B. and C.E. Contractors, S.E. Essex, to measure for interim valuations, agree sub-contractors and settle final accounts. Must be fully experienced. Pension scheme.—Full details and approximate salary required to Box 3029, "The Builder."

REQUIRED for important Building Site at King's Lynn, MEASURING SURVEYOR and JUNIOR for Abstracting and Billing. Reply giving full particulars stating age, salary, experience and qualifications.—Box 3070, "The Builder."

FRANKLIN & ANDREWS Require MEASURING SURVEYORS for Contracts in London and the Midlands.—Please reply in writing to 173/175 Fleet-street, London, E.C.4, giving full details of experience and salary required.

BONUS MEASURING SURVEYORS Required by RICHARD COSTAIN Ltd. Candidates must have had at least two years' experience on large building contracts, and must have measured all trades for bonus purposes.—Please apply, stating age and experience to Personnel Officer, 111 Westminster Bridge-road, London, S.E.1.

MEASURING SURVEYORS, Park-lane improvement, 2 years' Contract.—Apply FITZPATRICK & SON (CONTRACTORS), Ltd., 455 Old Ford-road, London, E.3. ADV 2991.

BUILDING SURVEYOR

Senior Builders' Quantity Surveyor required to supervise housing and school contracts within a radius of Wolverhampton. Capable of measuring valuations, ordering materials, handling Sub-Contractors and settling final accounts, knowledge of estimating an advantage but practical site experience is essential.

Please write to:

Area Planning Engineer,
SIR ALFRED McALPINE & SON LTD.
49 Waterloo Road, Wolverhampton

APC

ATOMIC POWER CONSTRUCTIONS LIMITED

invite applications for the following vacancies in their Central London offices.

QUANTITY SURVEYORS

The duties will include contractual work in connection with measurements, progress payments and variations.

Salaries will be in accordance with age and experience. The positions are permanent and pensionable. 5 day week. Applications giving full details of qualifications, experience, etc., should be sent to:—

The Personnel Manager (Ref. B/108),
Atomic Power Constructions Limited,
P.O. Box 90, 28 Theobalds Road, W.C.1

TERSONS LIMITED

are seeking Surveyors and

ASSISTANT SURVEYORS

in the Yorkshire area, due to continued expansion. Vacancies occur particularly in Sheffield and Huddersfield.

Excellent salaries and conditions are offered, together with prospects of promotion to executive positions.

Apply in confidence, stating age, previous experience and employers to Chief Surveyor, Tersons Ltd., 4 Dollis Park, London, N.3.

BONUS AND COST SURVEYOR

Required by London Contractors engaged on a variety of work.

Excellent opportunity for a keen and hard-working surveyor to establish a soundly run bonus and costing section. Excellent prospects for right man.

A. T. Chown & Co. Ltd.,
Chilworth St., W.2.

SURVEYOR Required for Quantity Surveyor with offices in Kensington and Epsom. Approximately 24 years of age with experience in site measuring, valuations and preparation of Final Accounts and ambition to take advantage of prospects. Present holiday arrangements respected. 2½ weeks' holiday at commencement increasing to 3 weeks after four years. Luncheon vouchers provided. Applicants to state age, training, experience, salary required, and which office is preferred.—Box 3109, "The Builder."

REQUIRED in Nottingham, MEASURING SURVEYOR for variations, certificates, etc.—Reply, stating age, experience, qualifications, and salary required, to Box 3112, "The Builder."

SURVEYOR Required by large London Builders. Must have had experience in measuring Sub Contractors, all trades and dealing with Variations. Situation, in the first instance, would be on a large site but would carry excellent opportunities of advancement. —Reply, stating age, experience and salary required, to Box 3115, "The Builder."

SURVEYOR Required for Quantity Surveyor with offices in Kensington and Epsom. Approximately 30 years of age with not less than 5 years' experience in all aspects of final accounts. Present holiday arrangements respected and three weeks' holiday will be normal. Luncheon vouchers provided. Applicants are to state age, training, experience, salary required, and which office is preferred.—Box 3108, "The Builder."

LAVENDER, McMILLAN (Cntrs.) LTD.

invite applications for

MEASURING SURVEYORS

for work in connection with various contracts in the Southern Counties. Opportunity for young men to increase their experience under the supervision of Senior Surveyors. Apply in writing giving full details and salary required to

The Chief Surveyor,

Lavender, McMillan (Cntrs.) Ltd.,
54 Cheam Common Road,
Worcester Park, Surrey.

SURVEYOR and ASSESSOR Required by a professional firm for negotiating settlement of small insurance claims on buildings and reporting thereupon. Negotiating experience essential. Car owner an advantage.—Write, giving details of age, experience and salary required, Box 3098, "The Builder."

MEASURING SURVEYORS Required on Contracts in the Blackpool, Preston and Warrington areas. These positions are permanent, progressive and superannuated.—Write, giving full details and salary required, to Housing Director, SIR LINDSAY PARKINSON & CO., Ltd., 6 Lambeth-road, London, S.E.1.

ASSISTANT SURVEYORS

YOUNG MAN Required by Granolithic Flooring Sub-Contractors, London, W.6 area, to work as JUNIOR ASSISTANT in Surveyors' office, working-up, accounting granolithic flooring quantities. Must be good at figures.—Reply, stating salary, age, etc., Box 2975, "The Builder."

ASSISTANT ESTIMATING/SURVEYOR Required at our London Office to handle small and medium sized contracts. Must possess sound knowledge of quantity surveying. Salary £800-£900 according to experience.—Full details, to DOUGLAS GRANT & PARTNERS, Ltd., 62 Finsbury Pavement, E.C.2.

ASSISTANT SURVEYOR Required for quantities department. Young man studying for H.N.C. and with at least two years' experience preferred. Should be capable of handling bonus schemes, costing, measuring sub-contractors and general routine.—Apply, in writing, stating age and experience, to M. HOWARD (MITCHAM), Ltd., Wandle House, London-road, Mitcham, Surrey.

ASSISTANT SURVEYORS (aged 22-27) Required for varied and interesting work including Taking-off, Site Measuring, Estimating, Bonusing, Planning and job management in all classes of building work. Experience in all fields not essential. Excellent prospects to progress with this expanding group of Companies.—Apply to Mr. Kift, WRIGHT, Ltd., 23 London-road, Sittingbourne. 'Phone: 666.

ASSISTANT SURVEYOR/ESTIMATOR Required for General Works Department. Capable of preparing quantities from drawings, etc. Training in pricing given if required. Opportunity for advancement. Permanent and pensionable position and bonus.—Write with full details to: The Director, WALTER LILLY & CO., Ltd., 8 St. Ann's-street, Westminster, S.W.1.

THE WOODGATE ORGANISATION, an expanding group of building and contracting companies with headquarters in rural Kent, Require an ASSISTANT SURVEYOR. Experience in either Estimating or measuring and settlement of final accounts is desirable. Preferred age under 30.—Applicants should give particulars of career to date and present salary, addressed to the Managing Director, W. P. WOODGATE, Ltd., High Halden, near Ashford, Kent.

ASSISTANT SURVEYORS

Age 20–25, required to measure Sub-Contractors interim valuations and final accounts.

Progressive, permanent positions. Non-contributory pension scheme.

Apply, stating age, experience and full details to:

McLAUGHLIN & HARVEY, LTD.,
24, HIGHBURY GROVE,
LONDON, N.5.

TAKERS OFF

SENIOR AND JUNIOR TAKERS-OFF Required by London Chartered Quantity Surveyors.—Please reply stating age, experience and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

TAKERS-OFF Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 916, "The Builder."

TAKER-OFF of Intermediate to Final standard Required by Westminster Quantity Surveyors. Excellent prospects in London Office and opportunities for overseas tours.—Apply, stating age and experience, Box 923, "The Builder."

MANCHESTER Quantity Surveyors (London Firm) Require TAKER-OFF. Need not be qualified but must be thoroughly experienced. Five-day week. Paid overtime. Pension Scheme.—Box 924, "The Builder."

MANCHESTER. Quantity Surveyors (London Firm) Require Staff. Good salary, Overtime, Pension Scheme. Five-day week. (a) SENIOR TAKER-OFF. Must be experienced man. (b) SENIOR MEASURING SURVEYOR. For duties on Final Accounts. (c) SENIOR WORKER-UP. Must be experienced man. Willing to take responsibility.—Box 926, "The Builder."

EXPERIENCED TAKER-OFF Required for Quantity Surveyors in Victoria. Varied types of work. Good prospects.—Write, stating age, full details of experience and salary required, Box 2780, "The Builder."

TAKER-OFF/MEASURING SURVEYOR (preferably qualified) Required for long-term appointment in branch Site Office in Berkshire by London Chartered Quantity Surveyors. House available. Subsistence allowance. Superannuation scheme. Five-day week.—Write full particulars to Box 2794, "The Builder."

TAKERS-OFF, AUSTRALIA (Sydney and Melbourne). Experienced TAKERS-OFF Required for three-year contracts, £A1,900, £A2,000, £A2,100, plus considerable overtime at increased rate, bonus on completion of contract. Fares to Australia paid. Perfect working conditions in air-conditioned office. Extra holidays. Continuation contract may be obtained.—Box 3003, "The Builder."

SYDNEY, AUSTRALIA. A vacancy occurs for experienced TAKER-OFF. Commencing salary £A1,900, excluding overtime. Fare paid.—Box 3004, "The Builder."

TAKER-OFF Required. Sound knowledge of construction essential. Varied and interesting work.—Particulars and salary required to KENNTH G. BARBER, Chartered Quantity Surveyor, 16 Pampisford-road, Purley, Surrey.

TAKERS-OFF Required in City Chartered Quantity Surveyors' office. Write, stating age, experience and salary required, Box 3021, "The Builder."

TAKER-OFF Required in Manchester office of firm of Quantity Surveyors.—Please write stating age, experience and salary required to Box 3025, "The Builder."

EXPERIENCED TAKER-OFF for permanent position in busy and varied City practice. Commencing salary not less than £1,200 per annum plus overtime.—Box 3006, "The Builder."

PORTSMOUTH. Experienced TAKER-OFF Required in Chartered Surveyors' office. Salary £1,000 to £1,200 per annum.—Apply THOMAS, LAMBLE & CO., Pearl Buildings, Commercial-road.

TAKER-OFF Required by Reinforced Concrete Specialists. Five-day week and non-contributory Pension scheme.—Please reply giving particulars of experience and salary to Box 3009, "The Builder."

YOUNG MAN (20/30) Required for London office (S.W.) of National Company of Specialist Roofing Contractors. Experience in taking-off from drawings, quantities and sizes of purpose made or prefabricated materials essential. Permanent superannuated position, widows' pension scheme, free mid-day meal, 5-day week.—Write stating age, experience, etc., to Box 3010, "The Builder."

ARTHUR J. WILLIS & THOMPSON. Chartered Quantity Surveyors, Require TAKER-OFF of Final standard.—Write giving particulars and when available to 41/42 Parliament-street, S.W.1.

JUNIOR TAKER-OFF, about intermediate standard. Required. Varied practice, including site measurement.—COGAN & PARTNERS, 55 Pall Mall, S.W.1. WHI 3848.

ASSISTANT TAKER-OFF Required in South Bucks office of London Quantity Surveyors. Commencing salary £750.—Reply with details of previous experience to Box 3049, "The Builder."

TAKERS-OFF Required by Chartered Quantity Surveyors for branch offices in South Devon and South Wales. Vacancies cover various grades from R.I.C.S. Intermediate to A.R.I.C.S. Pension and sickness schemes available.—Reply stating age, experience, qualifications, approximate salary required and area preferred to W. T. HILLS & CO., 64 Torwood-street, Torquay.

REQUIRED, TEMPORARY ASSISTANTS in Taking-off and Working-up. Reply giving full particulars stating age, salary, experience and qualifications.—Box 3071, "The Builder."

TAKERS-OFF Required, one recently qualified, and one studying for his final, for interesting and varied work, by Chartered Quantity Surveyors.—Apply giving full particulars to SARJEANT, STIMPSON & PARTNERS, 78 Park-lane, Croydon, Surrey.

JUNIOR TAKER-OFF Required by Central London C.Q.S. L.Vs., 5-day week, salary £750-£1,000.—Box 3078, "The Builder."

RELIABLE TAKER-OFF Required by Westminster Q.S. Small office offering responsibility and scope. Good salary. Holiday this year.—Box 3074, "The Builder."

TAKER-OFF, Final standard, Required by medium-size Chartered Quantity Surveyors, City area. Salary according to age and experience.—Box 3066, "The Builder."

SENIOR TAKER-OFF Required for Quantity Surveyor with offices in Kensington and Epsom. Age 30/35 with not less than five years' experience on various types of work after qualifying; capable of supervision of small team on complete projects. Willingness to undertake preparation of valuations and final accounts would be preferable but optional. Present holiday arrangements respected and three weeks' holiday will be normal. Luncheon vouchers provided. Applicants are to state age, training, experience, salary required, and which office is preferred.—Box 3106, "The Builder."

TAKER-OFF Required for Quantity Surveyor with offices in Kensington and Epsom. About 24 years of age, of intermediate to finals standard, for various types of work, preferably with some site experience and ambition to take advantage of prospects. Present holiday arrangements respected. 2½ week's holiday at commencement increasing to 3 weeks after four years. Luncheon vouchers provided. Applicants to state age, training, experience, salary required and which office is preferred.—Box 3107, "The Builder."

JUNIOR TAKERS-OFF Required for London Quantity Surveyor's Office.—Reply, with full particulars, and stating salary required, to Box 3110, "The Builder."

TAKER-OFF Required by London Chartered Quantity Surveyors.—Write, with particulars of experience, etc., to Box 3103, "The Builder."

TAKERS-OFF, Senior and Junior, Required by London Chartered Quantity Surveyor.—Write, stating experience, age, salary, to Box 3104, "The Builder."

TAKER-OFF, Intermediate to Final Standard, Required by firm of Quantity Surveyors in Westminster. Varied practice, five-day week. Paid overtime.—Apply, stating age, experience and salary required, Box 904, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers. Five-day week.—Write stating age, experience and salary required to Box 991, "The Builder."

TAKERS-OFF—Junior and Senior—Required by City Chartered Quantity Surveyors. Five-day week, pension scheme.—State age, experience and salary required to Box 2732, "The Builder."

TAKER-OFF (recent A.R.I.C.S. or this year's finalist) Required by Chartered Quantity Surveyors near Victoria Station. Permanent appointment to work on large and interesting projects. Pension scheme. Luncheon vouchers.—Write full particulars to Box 2733, "The Builder."

SENIOR TAKERS-OFF Required in Bloomsbury Chartered Quantity Surveyors' Office. First-class working conditions including Luncheon Vouchers and pension scheme with good prospects offered to suitable applicants.—Apply, stating age, qualifications, academic background and salary required, to Box 959, "The Builder."

TAKING-OFF ASSISTANTS (Intermediate standard) Required by Westminster firm of Quantity Surveyors (close Victoria Station). Salary £650-£750 per annum according to experience. Five-day week, overtime extra.—Full details of experience, age, etc., to Box 2862, "The Builder."

TAKING-OFF ASSISTANTS (Final and Intermediate standard) Required for Quantity Surveyors' Sussex office at Brighton. Five-day week, overtime extra. Permanent position.—Reply stating experience, age and salary required, to Box 2865, "The Builder."

TAKER-OFF Required by Chartered Quantity Surveyors in Reading area.—Apply Box 2858, "The Builder."

EXPERIENCED TAKER-OFF Required in London Chartered Quantity Surveyors' office. First-class working conditions with Pension and Life Assurance scheme.—Apply stating age, qualifications, experience and salary required, to Box 2850, "The Builder."

JUNIOR TAKER-OFF for Brighton office of Chartered Quantity Surveyors. State experience and salary.—Box 2889, "The Builder."

CO-OPERATIVE WHOLESALE SOCIETY Ltd., Architect's Department, Manchester. TAKERS-OFF Required. Applicants should be competent at taking-off in all trades with the minimum of supervision. Membership of the R.I.C.S. an advantage but not essential. Five-day week. Pension scheme.—Applications stating age, experience, qualifications and salary required, to G. S. Hay, F.R.I.B.A., Chief Architect, CO-OPERATIVE WHOLESALE SOCIETY Ltd., 1 Balloon-street, Manchester 4.

CROYDON firm of Quantity Surveyors Require Junior and Senior TAKERS-OFF.—Replies, giving full details of experience and salary required to be sent to Mr. R. Morrison, of DAVIES, BILL & PARTNERS, 15 George-street, Croydon.

JUNIOR TAKER-OFF Required by firm of Chartered Quantity Surveyors in London. (A.R.I.C.S. preferred). Salary £750-£950. Pension Scheme. Luncheon vouchers.—Please write, stating age, experience and salary required, to Box 2931, "The Builder."

LONDON FIRM of Chartered Quantity Surveyors Require experienced TAKERS-OFF for long-term contracts in South Wales.—Please apply, stating age, experience and salary required, to Box 2932, "The Builder."

TAKER-OFF Required by Westminster Chartered Quantity Surveyors. Intermediate to Final Standard, near Victoria. L.V. Five-day week.—Write, stating age, experience and salary required, Box 2947, "The Builder."

SENIOR TAKER-OFF Required by London Quantity Surveyors. Permanent position. Pension and Life Assurance Scheme. Salary £1,700 per annum.—Write, stating age and experience, Box 2959, "The Builder."

TAKERS-OFF Required in planning department of rapidly expanding contractor's branch office in S.W. London. Applicants should be of at least Intermediate standard and preferably with experience of both professional and contractors' offices. Five-day week, pension scheme. Write, giving brief details of experience and age and salary required.—Box 2896, "The Builder."

JUNIOR TAKER-OFF Required by London Quantity Surveyors for permanent position. Commencing salary £1,000 per annum. Pension and Life Assurance Scheme.—Write, stating age and experience, Box 2960, "The Builder."

EXPERIENCED TAKERS-OFF Required for work in London chartered quantity surveyor's office. 5-day week.—Reply, giving details of experience and salary required to Box 2898, "The Builder."

CHARTERED QUANTITY SURVEYOR (London, W.1) Requires competent TAKERS-OFF. Highest salary for suitable applicants. Varied and interesting contracts.—Write, stating age, experience and salary required, to Box 2972, "The Builder."

JUNIOR TAKER-OFF (R.I.C.S. Inter. standard) Required by Q.S. in Sussex. Five-day week, L.Vs.—Write stating age, experience and salary required, Box 2956, "The Builder."

TAKER - OFF / MEASURING SURVEYOR (A.R.I.C.S.) Required by London Quantity Surveyors. Pension and Life Assurance Scheme. State age and experience. Salary £1,500 per annum. Car provided.—Box 2961, "The Builder."

JUNIORS

4-DAY WEEK opportunity for juniors and/or post-intermediate students to keep abreast with their school work and undertake interesting and varied office work, including Schools, Hospitals, and Public Houses. Good salary according to qualifications and experience. 5-day working and overtime when desired, luncheon vouchers.—Appointment by telephone ROYal 6216, STEWART HENDRY & SMITH, F/F.R.I.B.A., A.M.T.P.I., 90 Fenchurch-street, London, E.C.3.

WESTMINSTER Quantity Surveyors Require YOUNG MAN 16-18. Applicants must hold General School Certificate. Excellent opportunities for training. Five-day week.—Reply in own handwriting to Box 2863, "The Builder."

JUNIOR Required by Chartered Quantity Surveyors, Holborn area. Opportunity to learn profession in small but expanding practice.—Apply in handwriting to Box 2962, "The Builder."

WEST END Professional Quantity Surveyor's office have vacancies for TRAINEE QUANTITY SURVEYORS. Time allowed off for study. Four-year training period. Salary £208 1st year; £260 2nd year; £312 3rd year; £364 4th year.—Apply in own handwriting giving standard of scholastic training. Box 3031, "The Builder."

WORKERS UP

WORKERS-UP Required by Holborn firm of Chartered Quantity Surveyors. Should have had about three years' experience in the profession. Salary will be in accordance with ability, with additional rate for overtime.—Reply, stating age, summary of experience, and salary requested, to Box 2837, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors.—Please reply stating age, experience, and salary required to G. F. K. WHITE & HAYTON, F./F.R.I.C.S., 38-39 Parliament-street, S.W.1.

WORKER-UP Required by firm of Quantity Surveyors, Westminster. Five-day week and Luncheon Vouchers. Good prospects and opportunities for the right man.—Apply stating age and experience to Box 980, "The Builder."

EXPERIENCED WORKER-UP Required by London Quantity Surveyors. Salary £750-£1,000 p.a. according to experience.—Write, giving full particulars of qualifications, and age, to Box 954, "The Builder."

SENIOR WORKER-UP for London Quantity Surveyors.—Write stating age, details of experience and salary required, to Box 953, "The Builder."

WORKERS-UP Required by London Chartered Quantity Surveyors for permanent staff.—Write stating age, experience and salary required to Box 905, "The Builder."

WORKER-UP Required by London Chartered Quantity Surveyors. High remuneration for good worker.—Please reply, in confidence, to Box 986, "The Builder."

APC

ATOMIC POWER CONSTRUCTIONS LIMITED

WORKER-UP

A vacancy has arisen in the London office of the above Company for a Worker-up. Although the duties will primarily consist of abstracting and billing, the successful candidate will have ample opportunity to enlarge his experience in contract price adjustment, cost analysis and variations, with a certain amount of junior taking-off.

Applications stating age, experience, etc., to:—

The Personnel Manager (Ref. B/104),
Atomic Power Constructions Limited,
P.O. Box No. 90, 28 Theobalds Road, W.C.1

EXPERIENCED WORKER-UP Required by firm of Chartered Quantity Surveyors in West End, London.—Reply stating experience, age, salary required to Box 931, "The Builder."

WORKERS-UP and intelligent JUNIORS, wishing to train for and qualify as Chartered Quantity Surveyors. Required in Bloomsbury Chartered Quantity Surveyor's Office. First-class working conditions, including Luncheon Vouchers, and opportunities for progressive training offered to suitable applicants.—Apply, stating age, experience, if any, academic background and salary required, to Box 971, "The Builder."

WORKERS-UP Required by City Chartered Quantity Surveyors. Pension scheme, overtime, five-day week. State age, experience and salary required to Box 2731, "The Builder."

JUNIOR WORKER-UP Required, 5-day week.—Write stating age, experience and salary required to SYDNEY C. GORDON, Finsbury House, 22 Blomfield-street, London, E.C.2.

WORKERS-UP Required in Gray's Inn Quantity Surveyor's office. Permanent position with opportunities for rapid advancement.—Box 2752, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors in Holborn. Age 20 to 25, with at least three years varied experience. Two weeks' holiday this Summer. Five-day week.—Reply, in longhand, giving particulars and salary required, to Box 2757, "The Builder."

WORKERS-UP, with at least 3 years' experience. Required by medium size London firm of chartered quantity surveyors. 5-day week.—Please apply, stating age, experience and salary required, to Box 2897, "The Builder."

WORKER-UP for permanent position in London office of Chartered Quantity Surveyors. Pension scheme and L.V.s.—Please write, stating age, experience and salary required, to Box 2933, "The Builder."

WORKER-UP Required by Westminster Chartered Quantity Surveyors' office near Victoria; good opportunities. L.V.—Write, in own handwriting, stating age, experience and salary required, Box 2948, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyors in West End for permanent staff. Five-day week. Luncheon vouchers; medium-size office. Two weeks holiday this year.—Write, giving full particulars of experience and salary required, to WOOD AND WEIR, 5 Wigmore-street, Cavendish-square, London, W.1.

SENIOR WORKER-UP Required by Chartered Quantity Surveyors in Leicester. Required to take charge of working-up department if experience warrants. Write, stating experience and salary required, to Box 2946, "The Builder."

WORKER-UP with at least three years' experience Required by Chartered Quantity Surveyor, near Trafalgar-square. Position offers good prospects and opportunity with variety of work.—Apply stating age, salary and experience, to Box 2973, "The Builder."

WORKER-UP for permanent staff in Holborn area by Chartered Quantity Surveyors. Good prospects of site measuring. Holiday arrangements honoured. —Apply Box 901, "The Builder."

WORKER-UP Required by professional firm of Quantity Surveyors, Victoria area. Progressive position. Five-day week. Luncheon Vouchers.—Brief details to Box 2977, "The Builder."

WORKER-UP Required in Manchester office of firm of Quantity Surveyors.—Please write stating age, experience and salary required to Box 3024, "The Builder."

SENIOR WORKER-UP Required by City Quantity Surveyors. Permanent position. Commencing salary £750/£900 p.a. according to experience. —Write with full details to Box 3007, "The Builder."

WORKER-UP Required by Chartered Quantity Surveyor.—Write, BROWN AND BIDDIS, 122/123 High-street, Uxbridge, Middlesex, stating age, experience and salary required.

WORKER-UP Required immediately.—Applications in writing stating experience, age and salary required, to JOHN McBAIN AND PARTNERS, Quantity Surveyors, 49/50 Maybury-road, Woking.

WORKERS-UP Required. Senior and Junior.—Apply, in writing, to STANLEY GRIFFITH & PARTNERS, Greycoat Chambers, 9 Greycoat-street, Westminster, S.W.1.

WORKER-UP with not less than three years' experience Required for established South Bucks branch office of London Quantity Surveyors.—Reply with details to Box 3048, "The Builder."

SENIOR WORKER-UP Required by Chartered Surveyors, Westminster.—State experience, age and salary required, Box 3042, "The Builder."

WORKER-UP for long-term contract at Newport, Mon., Required by firm of Chartered Quantity Surveyors. Rented accommodation available.—Please write stating age, experience and salary required to Box 3081, "The Builder."

WORKER-UP/JUNIOR TAKER-OFF Required by Building Contractors in Kilburn, N.W.6 in their Quantity Surveying Department. After a short period he will be engaged on preparing quantities from drawings solely. Must have had good grounding in working-up and able to work without supervision. Pension Scheme in operation.—Write, giving details of experience, and salary required, to Box 3084, "The Builder."

SENIOR and JUNIOR WORKER-UP ASSISTANTS Required for permanent and temporary employment in London Quantity Surveyor's Office.—Reply, stating age, experience, salary required, and when available, to Box 3111, "The Builder."

WORKER-UP Required by Holborn Chartered Quantity Surveyor.—Send details of experience, age and salary required, to Box 3105, "The Builder."

WORKER-UP, with at least two years' experience. Required. Salary up to £500 according to qualifications and experience.—Uusual details to CARPENTER & BULL, A./A.R.I.C.S., 38 South-street, Chichester, Sussex.

JUNIOR WORKER UP

Required for Q.S. Section of Industrial Company. Pensionable and free lunches. Opportunity for learning taking off and measuring on site at a later stage. Please reply, stating age, experience and salary to:

Chief Surveyor,
Wiggins, Teape & Co. Ltd.,
Gateway House,
1, Watling Street,
London, E.C.4.

ENGINEERS

SENIOR and JUNIOR SITE ENGINEERS and **QUANTITY SURVEYORS** are Required for Civil Engineering and Building Contracts in England and Wales. These are permanent appointments with good prospects. Bonus and Superannuation schemes in operation.—Applications, which will be dealt with in strict confidence, must give details of age, experience, qualifications and salary required and should be addressed to Personnel Officer, TARMAC CIVIL ENGINEERING, Ltd., Ettingshall, Wolverhampton.

PLANT ENGINEER Required by old-established Building and Civil Engineering Contractors in South-West. Applicants must have had similar previous experience and be capable of organising and controlling the maintenance, repair, erection and movement of modern Diesel and electrical plant, including Tower Cranes. The position is permanent and pensionable.—Apply stating age, details of previous experience and salary required to Box 2796, "The Builder."

WORKS STUDY ENGINEER Required, preferably with experience in the building industry.—Reply in writing stating age, qualifications and details of experience, etc., to M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey.

W. & C. FRENCH Ltd. urgently Require experienced ENGINEERS, preferably qualified, for Building and Civil Engineering contracts in the Home Counties. Good prospects for suitable applicants.—Apply, in writing, stating age, experience and salary required, to Personnel Manager, 50, Epping New-road, Buckhurst-hill, Essex, quoting reference number 167.

CIVIL ENGINEERS Required by national firm of contractors for site construction work and reinforced concrete design work in South Wales, the north of England and Scotland. Age approximately 21 to 30. Wide training experience available with opportunities for promotion. H.N.C. or degree essential. Permanent posts with generous salaries and bonus scheme.—Apply in confidence giving general qualifications and experience to Box 3041, "The Builder."

CIVIL ENGINEERING ASSISTANTS are Required by the UNITED KINGDOM ATOMIC ENERGY AUTHORITY, Development and Engineering Group, at Risley, Warrington, Lancashire, to prepare or assist in the preparation of engineering drawings and plans needed for the Authority's construction programme. The work will involve detailing of process and cooling water systems, roads, main and domestic drainage and plumbing (including acid resisting work). Applicants should have several years' drawing office experience and possess an O.N.C. or equivalent, in Civil Engineering. Salary on scale between £585 (at age 21) and £915. Contributory superannuation. Staff housing scheme.—Send postcard for application form, quoting reference 263/T.64, to Recruitment Officer at above address. Closing date: 7th June, 1960.

ROAD AND BRIDGE WORK

National Civil Engineering Contractor has large Contracts in Midlands area and invites applications from the following grades of Staff possessing experience with such work:

Setting out Engineers
General Foremen
Office Managers
Site clerk/Timekeepers
Gangers

Apply stating experience and salary required to **Box No. 2920**

ESTIMATORS

JUNIOR ESTIMATOR REQUIRED in a small West End contractor's office. Interesting and varied work with ample opportunity for advancement in a growing business. Applicants should be between 25 and 30 years of age. Salary dependent upon qualifications.—Telephone WELbeck 5432.

ESTIMATORS SHOP FITTING Required. Experience of first-class workmanship. Excellent prospects for the right men.—Apply stating qualifications, Box 2708, "The Builder."

ESTIMATOR Required by Building Contractor in Victoria. Must be fully experienced to price all types of work up to £150,000. Five-day week, permanent position, pension scheme.—Apply, stating age, qualifications, experience and salary expected, to Box 2765, "The Builder."

ESTIMATOR Required for Small Works Department. Must be fully experienced in Site Measurement all Trades, taking-off and pricing from Drawings and Specifications and preparing Interim Certificates and Final Accounts.—Apply in writing, stating age, experience and salary required, to GRACE & MARSH Ltd., New Bridge Works, Waddon, Croydon.

ASSISTANT ESTIMATOR Required by old-established firm of Quantity Surveyors (close Victoria Station). Five-day week, overtime extra.—Reply in own handwriting stating experience, age and salary required, to Box 2864, "The Builder."

ESTIMATOR Required for Building Contractor's office for pricing general building work £20,000-£500,000 in the Southern half of England from head office in London, S.W.16.—Reply stating age, experience and salary required, to Box 2891, "The Builder."

JOINERY ESTIMATOR for factory in N.W. London, non-contributory pension scheme, canteen facilities. —Details of past experience, present salary, age and copy references, to Box 2875, "The Builder."

ESTIMATOR—Joinery and Shopfitting work. Profit-sharing, non-contributory Pension scheme after suitable period.—JAMES WALKER (ARCHITECTURAL DECORATORS) Ltd., 15/17 Brunel-road, East Acton, W.3.

BUILDING ESTIMATOR Required for large City Quantity Surveying firm. Age 30/35. Must be experienced in negotiation. Salary £1,200 per annum, plus overtime.—Box 2939, "The Builder."

ESTIMATOR/SURVEYOR Required, with good all-round experience and capable of working on own initiative. West London area.—Apply, with brief details, Box 2917, "The Builder."

BUILDING ESTIMATOR Required for interesting and varied tendering for contracts over a wide range of price. Knowledge of modern methods of construction essential. The position is permanent and carries a substantial salary and bonus. Entry into the Company's Superannuation Scheme will be arranged at the end of twelve months' service. —Applicants should write stating age, qualifications, experience to date, etc., to the Chief Estimator, THE MITCHELL CONSTRUCTION COMPANY Ltd., Wharf Works, Peterborough, where applications will be treated in the strictest confidence.

BUILDING CONTRACTOR Requires ASSISTANT ESTIMATOR/SURVEYOR. Flat available.—Write, fully stating experience, age, salary required, etc., to MESSRS JOHN H. WILSON & SONS, Ltd., 38 Standbanks-road, Parkstone, Poole, Dorset.

EXPERIENCED ESTIMATOR

required with at least five years' experience of estimating for building and civil engineering contracts up to £250,000. Salary £1,400 per annum. Pension scheme in operation. Bonus. Holiday arrangements for this year will be honoured. This vacancy exists in an expanding Contractor's office at Watford. Apply with relevant particulars to

Box No. 2980, 'The Builder'.

ESTIMATOR/ SUPERVISOR

required for Small Works Department of West End Builders specialising in good class alterations and decorations. Contracts up to £15,000.

Write, stating age, experience and salary to

Box 2490, " The Builder "

PAINTING SUPERVISOR/ESTIMATOR

(Age 30/35)

For West End work. Practical man, able to work on own initiative.

Position offers good salary and annual bonus on results. Free Pension Scheme.

Box No. 2916, "The Builder"

SENIOR ESTIMATOR

Required by Building Contractors. Experienced in all types of construction, permanent and progressive position, good salary, pension scheme. Apply, in writing, giving details of age, experience and salary required, to: Managing Director, A. E. SYMES, Ltd., 236-252, High Street, Stratford, London, E.15.

NEW OPPORTUNITIES. Keen, young TRADESMEN Required to train as Estimators, Draughtsmen, Setters-out and Production Assistants, in development of Architectural Aluminium.—Write giving full details of experience to Secretary, UNIVERSAL SHOPFITTING CO. (LONDON), Ltd., Kangley Bridge-road, S.E.26.

ESTIMATOR Required for our building division. Applications are invited from young men capable of reading a building drawing and of dealing with arithmetical calculations. Excellent prospects to the right man in this expanding field.—Please apply in writing to Personnel Manager, COMMERCIAL PLASTICS Ltd., 75 Grosvenor-street, London, W.1.

ESTIMATOR (ASSISTANT). Scottish Special Housing Association Ltd. invite applications for this superannuable appointment in the Direct Labour Organisation. Applicants should possess a wide experience of competitive estimating for housing schemes, including multi-storey flats and for roads and sewer construction. Salary scale £780-£1,135 per annum with placing for experience. A house may be available if required.—Forms of application with full particulars of the post are obtainable from the Secretary, 15-21 Palmerston-place, Edinburgh 12.

ESTIMATOR/SURVEYOR Required for old-established North London Builders for Contracts up to £70,000. Age about 30.—Apply giving full details of age, experience and salary required, to Box 3011, " The Builder."

ESTIMATOR experienced in pricing conversions, alteration and maintenance works Required for medium-sized Building Contractors. Permanency at high salary with excellent prospects consequent upon expansion.—Apply in writing stating age, experience and salary required.—A. BELL & SON (PADDINGTON) Ltd., and Associated Companies, 58 Kensal-road, W.10.

JOINERY ESTIMATOR. Experienced in decorative and architectural joinery, churches, banks, showrooms etc.—Apply, with details, age, experience, salary, to Director, HEAL'S JOINERY WORKS, 196 Tottenham Court-road, W.1.

BUILDING ESTIMATOR (preferably between 35 and 45 years of age) Required by long-established organisation of National Contractors for attachment to their Estimating Department in London. Permanency and good prospects for the right man. Non-contributory pension scheme. Applications (which will be regarded as strictly confidential) should give age, experience and salary required and be addressed to " The Secretary," c/o Box 3045, " The Builder."

ESTIMATOR Required for B. and C.E. Contractors outer London, Essex area. Must be fully experienced to price all types of work up to £500,000. Pension scheme.—Apply, full details and salary required to Box 3028, " The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required for Middlesex office. Must have good training, be able to prepare interim accounts and measure sub-contractors. Good prospects for keen, energetic young man.—Apply Box 3067, " The Builder."

SHOPFITTING ESTIMATOR Required for vacancy in London office of provincial firm. Permanent position, pension scheme.—Write, giving full details of age, experience, etc., to Box 3075, " The Builder."

LESLIE & CO LTD

require in London Office

ESTIMATOR

Due to an expansion programme the Company require a young Estimator who has a good knowledge of building construction and experience in estimating for smaller contracts. This position offers opportunity for a keen person to expand his ability by being trained to estimate for major contracts using his own initiative and working under minimum supervision.

The Company operates on a large scale throughout the country and has Branch Offices in Scotland, Northern England, Midlands and the South. This post carries an attractive salary, good annual bonus and non-contributory pension scheme.

Apply in confidence to the **Chief Estimator, Peel Street, Kensington, London, W.8.**

ESTIMATOR/SURVEYOR

required by

progressive firm N.E. London

L.I.O.B. an advantage. Pension scheme. Apply in writing giving details to

Box No. 919, "The Builder"

TAYLOR WOODROW CONSTRUCTION LIMITED

require

experienced building and civil engineering

ESTIMATORS

Applicants must be experienced in large scale works. Pension Scheme. Excellent opportunities.

Write, giving brief details of experience and present employment, which will be treated in strict confidence, to:

Personnel Manager,
345 Ruislip Road, Southall, Middlesex

MANAGERS

SMALL CONTRACTS MANAGER Required. East Berks, to supervise small works department and Contracts up to £15,000. Applicant must be a good estimator and an experienced practical man able to deal with work from enquiry to final account and organise and supervise labour. Good opportunity for keen and energetic man. Reply giving age, experience, references and salary expected.—Box 2982, " The Builder."

PRE-CAST CONCRETE MANUFACTURERS. Expanding group of companies in South West Middlesex invite application from first-class man to assist in factory administration, progressing and quality control. The successful applicant—who must have had similar experience—will be expected to assume full responsibility for output from subsidiary works within a short period of his engagement with a view to ultimate responsibility to Director for combined output.—Please write in confidence, giving age and brief details of experience, to Box 2983, " The Builder."

LABOUR OFFICER Required. This position is a new one created in an expanding organisation, which offers considerable scope. The successful candidate will be responsible for the acquisition and appointment of Site Personnel and introduction and running of an apprenticeship scheme. Preference will be given to applicants having previous experience of this work.—Write in confidence with details of past experience and salary required to Box 2984, " The Builder."

A NEW BUILDING AND CIVIL ENGINEERING COMPANY IN SOUTH WEST WALES

requires the following Key Personnel with personality, initiative and a keen interest in the Industry.

A. **GENERAL AND CONTRACTS MANAGER** to develop and expand this new Company, obtain Contracts, and generally supervise the efficient working of the Contracts. The Candidate should be fully experienced in all departments of the Building and Civil Engineering Industry.

B. **QUANTITY SURVEYOR.** Fully qualified, A.R.I.C.S., or A.I.Q.S. to control the Estimating, Site Measurement and Final Accounts.

C. **TAKER-OFF AND ESTIMATOR.** To assist the Quantity Surveyor, take off, estimate and control Sub-contractors and suppliers enquiries.

D. **CHIEF CLERK.** To institute and maintain an efficient General Office, experience with Indemnity Bonds, etc., Insurances essential.

Good Salary Scales offered for these important Posts. A Non-Contributory Pension Scheme is in operation. Ample scope and opportunity for resourceful men with integrity and enterprise.

Applications stating Age, Qualifications, Experience and Interests, together with details of present appointment to:—

OFFICE MANAGER,
DAVIES AGRICULTURAL SERVICES, LTD.,
Burton Chambers, King Street, Carmarthen

AREA MANAGER

BRISTOL & SOUTH WEST

National Building Contractors invite applications for the above responsible and progressive position based at their Bristol Office.

Applicants, who must be capable of using own initiative in handling large contracts and generally organising and controlling a Branch Office, should send full details to:—

Box No. 3035 "The Builder"

TROLLOPE & COLLS LTD.,
invite applications for the following posts:

MANAGER

for Specialist department undertaking all forms of Reinforced Concrete construction including multi-storey building frames. There are considerable prospects of expansion. Qualified Engineer an advantage, but not essential.

ESTIMATOR/SURVEYOR

fully experienced in preparation of estimates, and final accounts for above work. Experience with Reinforced Concrete Company desirable.

These posts will be permanent and pensionable, carrying salaries commensurate with the responsibilities involved. Applications, giving fullest particulars. of qualifications, experience and salary required, should be sent to: The Assistant Secretary, Trollope & Colls Ltd., One Noble Street, Gresham Street, London, E.C.2.

NOEL T. JAMES LTD.

Vacancy for

BUILDING AND JOINERY CONTRACTS MANAGER

Permanent post for right man. Knowledge of painting contracts desirable. Must be capable of site measurement, surveying, interim and final accounts. State age, experience and salary required.

Kelvedon Street Works,
Newport, Mon.

WOODWORKING PRODUCTION MANAGER

An excellent opportunity for a first class man aged between 40–50 years to manage the production of woodworking over the three categories (a) Constructional shopfronts and interiors, (b) Contract furniture and (c) Point of sale display units. This position, which commands a high salary, is offered only to a fully experienced man who would prove masterly at co-ordinating the production of all items under one roof. Brief details in the first instance in writing to:—

The Managing Director,
City Industrial Limited,
Farringdon Station Chambers, E.C.1.

Factory at Finsbury Park, N.4.

W. & C. FRENCH Ltd. Require SITE BUILDING MANAGER for large L.C.C. Housing Contract, Houghton Regis, near Dunstable, Bedfordshire, to work under supervision of Agent.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New-road, Buckhurst Hill, Essex, quoting reference number 465.

ASSISTANT Required to Manager of West Middlesex Building and Decorating Company, able to estimate for small works and decorating, and organise and run contracts. Car driver preferred. Only those with experience need apply.—Box 2852, "The Builder."

ARCHITECTURAL MATERIALS. Director, Marketing Company, Requires YOUNG ASSISTANT to meet Architects, etc., in London area and to deal with office enquiries. Exceptional scope for right type.—Box 2921, "The Builder."

CONTRACTS MANAGER Required by expanding firm of Flooring Contractors in Liverpool area. Must be fully experienced particularly in Terrazzo-Mosaic and Wall and Floor Tiling, and be able to accept full responsibility for Contracts department. Salary commensurate with ability, but not less than £950 per annum.—Write Box 3026, "The Builder."

INTERIOR DECORATORS (West End) Require a young man aged about 25 years for measuring and to assist manager. Must be experienced in the trade and able to drive.—Box 3001, "The Builder."

REQUIRED by Roofing Contractors for busy contracts department, **MALE ASSISTANT** aged 23-35 years. Must be quick at figures and good organiser. Opportunity to take charge when proficient. Salary according to age and ability.—Write Box 3012, "The Builder."

WORKS MANAGER Required by City Builders, to take full control of Joinery Works and able to Estimate for all types of Building Work. Good Prospects.—Write, stating age, experience and salary required, Box 3063, "The Builder."

CONTRACTS MANAGER Required by expanding medium-sized Building Contractors in Middlesex. Must be experienced, able to organise, and have the capacity to inject drive and enthusiasm into contracts under his control. This is a permanent and progressive appointment and there are really excellent opportunities for the right type of man. —Write giving brief details of experience, age, and present emoluments, Box 3038, "The Builder."

SHOP AND STORE DEVELOPMENTS. Director of large, progressive and old-established property-owning company desires PERSONAL ASSISTANT. Must be experienced in preparation of draft schemes, site inspection and preparation of property surveys. Willing to travel from London headquarters.—Box 3037, "The Builder."

MANAGER. Established joinery and shop-fitting company in South West. Practical background. Proven estimator. Experienced purpose made and repetitive joinery. Expert knowledge contemporary shop fronts and interior fitting design. Four figure basic salary and bonus.—Applications stating qualifications and experience to Box 3033, "The Builder."

APPLICATIONS are invited for appointment as DEPUTY MANAGER of a Department in an established and progressive company.

Initiative and Organising Ability are essential and a knowledge of quantity surveying would be useful.

In addition to his duties as Deputy Manager, the appointee will be responsible for the internal organisation and administration of the department, which is engaged in large scale private enterprise house building.

Applicants must be male, aged 25/35.

Please apply, in writing, stating age, experience and salary required, to H. C. JANES, Ltd., Builders, 183 High Town-road, Luton, Beds.

APPLICATIONS are invited for the position of CONTRACTS MANAGER. Applicants must have sound knowledge of modern building methods and plant, had previous experience in such a capacity, and be capable of thoroughly organising and controlling several contracts concurrently.—Write in confidence giving full details of experience, contracts undertaken, age and salary expected to BRAZIER & SON Ltd., 303/305 Portswood-road, Southampton.

EXPERIENCED AND TRAINEE OFFICE MANAGERS Required for Building and Civil Engineering Contracts. Must be willing to travel. Excellent prospects for men with initiative and drive. Pension scheme.—Full details of experience, age and salary required to Box 3013, "The Builder."

CONTRACTS MANAGER Required by medium-sized country firm. Must have knowledge of all trades and be experienced in the control of a group of contracts varying in size from £20,000 to £200,000. Working area normally Berkshire and Oxfordshire.—Apply, in writing, to J. SMALLBONE & SONS, Ltd., Building Contractors, Streatley-on-Thames, Reading, Berks. (Please mark envelopes "Attention Jrs.").

ASSISTANT MANAGER

required for West Middlesex Branch of London Contractors. Specialising in alterations and decorations. Must be able to estimate and supervise contracts and work on own initiative.

Car driver preferred. Write stating age, experience and salary required to

Box No. 2944

Experienced WORKS MANAGER

required by well-known London contractors in their small but highly mechanised Joinery Works. Only those applicants who have had the fullest experience in estimating for all types of joinery handled in the industry, and who are thoroughly conversant with modern methods of management, progressing, incentive schemes, etc., should apply, in strict confidence, to the Managing Director,

Box No. 2787, "The Builder".

JOINERY MANAGER, experienced in purpose-made hardwood joinery; must be good estimator. Small but expanding works. — Apply, GEORGE COULTER, Ltd., Masons Hill, Bromley, Kent. RAV 8877.

MEN, 25 years or over. Required to train for Management by a National Company of Specialist Contractors for metal decking, cladding, suspended ceilings and weatherproofing. Training in the administrational and operational work within the company will be given at Manchester before posting to an area office. Applicants should have a good standard of education and an interest in the Building Industry.—Please reply to Box 3079, "The Builder."

PROGRESSIVE MANUFACTURING COMPANY has vacancy for an experienced SALES MANAGER. Engineering background preferred. Connections to building trade, architects, local authorities essential. Experience in export and the refrigerating industry advantageous. Age 35-45.—Box 3073, "The Builder."

GABLE CONSTRUCTION CO. LTD.

require immediately
for work in Surrey

CONTRACTS MANAGER
GENERAL FOREMAN
SITE ENGINEER

Permanent positions. Pension schemes available. Apply with full details of training, experience, etc., to:—

54 Garratt Lane, S.W.18,
or telephone VANdyke 6171/2/3.

OFFICE MANAGERS
WAGES CLERKS
TIMEKEEPERS

Vacancies exist on the permanent Contract Staff of an old-established B. & C.E. Contractor in the Midlands for men experienced in handling these operations on large building projects. The positions are permanent and will carry a good salary with allowances and there is a pension scheme. Applications should state age, past experience, etc., to

Box 3044, "The Builder"

CLERKS OF WORKS

ARCHITECT'S Office in City Requires CLERK OF WORKS for supervision of new work, also alterations and mantenance. Should not be more than 45 years old and preference given to men qualified as M.I.C.W.—Write stating experience, age and salary required.—Box 2900, "The Builder."

CLERK OF WORKS urgently Required for construction of office premises at Harrogate, Yorkshire, commencing early June, 1960. Duration approximately 11 months. Experience of R.C. work essential. Salary £950 per annum.—Applications to CLIFFORD TEE & GALE, Architects, London. Tel.: VICtoria 9736.

CLERK OF WORKS

required for the reconstruction of an important retail shop building in the Stratford, E.15 area for the London Co-operative Society, Ltd. Duration of contract about two years. Only men experienced in substantial sized contracts, including foundation and structural work should apply. Please state age, experience and salary required.

George Baines & Syborn, A.R.I.B.A.,
Chartered Architects,
121, Victoria Street, S.W.1.

EXPERIENCED and reliable CLERK OF WORKS Required for administration and power buildings for large sewage works in North London area. Applicants should preferably be members of the Institute of Clerks of Works. Salary £800-£1,000 p.a. according to qualifications and experience.—Apply in writing, giving full details of career, to J. D. & D. M. WATSON, 67, Tufton-street, Westminster, S.W.1.

CLERK OF WORKS Required urgently for a large conversion job in central London. Duration of contract about nine months, but the Architects will be able to employ a satisfactory man on other works after completion. Salary offered, £1,200 per annum.—Apply to ADAMS, HOLDEN & PEARSON, 38, Gordon Square, W.C.1.

EXPERIENCED CLERK OF WORKS Required at once for Pre-Cast Concrete Office Building 50,000 sq. ft. at Harrow. Contract just commenced. Contract period 8/9 months. Salary range £900/£1,100 p.a. according to experience.—Apply giving full particulars of experience to G.R.C., 18 Upper Brook-street, W.1. Mayfair 5855.

BUYERS

SENIOR BUYER Required by contractors with head office at Plymouth. Applicants must be experienced and possess initiative.—Written applications, giving full details of experience, age and salary requested, to Box 3014, "The Builder."

CHIEF BUYER Required by National Building Contractors for their centralised Buying Department, London. Applicant, aged 33-45, with sound experience, personality and ability direct staff and control expanding department. Progressive salary, pension scheme, excellent prospects.—Apply, Box 3076, "The Builder."

Experienced

PRE-CAST CONCRETE SALESMAN

urgently required to cover South London and Home Counties. This is an excellent opportunity for a first class man not over 40 years of age versed in all aspects of the industry and is a position which could lead to sales managership.

Box 2879

SALES OFFICE PERSONNEL

of good education

Old-established company manufacturing products allied to the Building Trade. Applicants must be able to handle correspondence with Architects and Builders from initial enquiry to final completion. Sound fundamental knowledge of building construction is essential.

Age 25–35 years. Remuneration £700 to £950 per annum.

Write, in confidence, giving details of experience, education, etc., to :

Box 3065, "The Builder"

Formerly the Incorporated Clerk of Works Association of Great Britain

FOUNDED 1882

THE

INSTITUTE'S EXAMINATIONS

will be held 24th–28th May, 1960 in London, Edinburgh, Belfast and Manchester.

Forms of entry from The Secretary, Liverpool House, 15/17 Eldon Street, E.C.2.

REPRESENTATIVES

ROBERTS ADLARD & CO., Ltd., Require for the London Area a **REPRESENTATIVE** having an existing connection with Architects and Surveyors and a specialised knowledge in some or all of the following: Slating, tiling, asbestos and aluminium roofing, over and under purlin linings.—State age, qualifications and salary required, to Secretary, Tweedy-road, Bromley, Kent.

TECHNICAL REPRESENTATIVE resident near Leeds, preferably aged 30-40, prepared to travel extensively in the North and Midlands. Required for London firm of Ironfounders and steel fabricators. Experience in negotiating with consulting engineers, architects and contractors, and ability to take own site measurements essential. Successful applicant will be required to undergo a period of training in the London area, and will thereafter be based in Leeds, to operate with a minimum of supervision. Car provided. Contributory pension scheme.—Please supply details of experience and state salary required to The Secretary, BROADS MANUFACTURING CO., Ltd., 4 South Wharf, Paddington, W.2.

BUILDERS ASSISTANTS

TECHNICAL ASSISTANT Required for London office of national Building Contractors. Must have some knowledge of builders' quantities and concrete structures.—Apply stating age, experience and salary required to Box 2985, "The Builder."

REQUIRED by well-known London contractor, a **TECHNICAL ASSISTANT** to investigate and report on new developments in plant, materials and new techniques in building. Essential qualities: a capacity for hard work, and sound knowledge of building materials.—Reply giving past experience and salary required to Box 2740, "The Builder."

ASSISTANT Required by Specialist Contractors at South Croydon to prepare layout drawings and arrange materials for contracts. Experience in this field, or knowledge of building desirable. Good opportunity for young man 18-23 years. Write for interview.—Box 2936, "The Builder."

GENERAL ASSISTANT Required in office of small and progressive builders to assist generally and particularly with estimating. Contracts up to £20,000. Sound position for sound man, with good prospects. —LAUSTAN CONSTRUCTION CO., Ltd., 55 Wellesley-road, Chiswick, W.4.

GEORGE WIMPEY & CO., LIMITED

invite applications from

men who have completed a full time technical course and obtained Higher National Diplomas or L.I.O.B., for appointment as

TECHNICAL ASSISTANTS

in Contract Department dealing with planning and organisation of building contracts. Work entails the preparation of schedules and programmes and general contract administration under supervision. Progressive posts with opportunity of increasing responsibilities.

Written applications, giving details of age, experience, qualifications and salary required, to:—

Establishment Officer,
27, Hammersmith Grove, London, W.6
Ref. 856

SITE AGENT
BRISTOL AREA

A vacancy exists for a top-grade man for contract in Bristol.

Applications will be considered only from men of proven ability.

Experience in multi-storey reinforced concrete building essential.

The position which is open is permanent, and offers an excellent opportunity for the right man.

Apply in writing, giving details of experience to :—

Box 3036, "The Builder"

AGENTS

BUILDING AGENT/GENERAL FOREMAN Required for interesting contract in the Midlands area. Must be fully competent to take complete charge and to carry out work expeditiously and economically. This post offers a good salary, bonus, and excellent prospects to a first-class man.—Write stating age, experience, and present salary to Box 2986, "The Builder."

KYLE, STEWART (CONTRACTORS) LTD.,

require

AGENTS AND GENERAL FOREMEN

in London and Home Counties for contracts between £100,000 and £500,000 in value.

Must be experienced in all aspects of the trade, possess drive and initiative and up to date knowledge of mechanical plant management.

Participation in Company's Bonus and Pension Schemes. Salary four figures offered to successful applicants who will have opportunity for advancement to the position of Contracts Manager.

Apply in writing, stating experience and salary required to

Managing Director,
Kyle, Stewart (Contractors) Ltd.,
Ardshiel House,
Empire Way, Wembley, Middlesex

BUILDING AGENT

Applications invited from experienced agents aged, 35-45 with sound experience in all aspects of building for a senior position as Agent on work in the Leeds Area.

Extensive practical experience of site supervision, the ability to control the main building trades and sub-contractors, a successful production record and a keen interest in the utilisation of advanced planning and production techniques and cost control procedures are essential.

This responsible position, based at our head office in York, is permanent, does not involve lodging away and offers good prospects substantial and progressive salary bonus and non-contributory pension scheme. A car is provided and assistance with housing.

Written applications which will be dealt with in strict confidence, should state age, outline of experience, approximate salary required and should be addressed to :

M. F. Shepherd, F.I.O.B.
Director,

F. SHEPHERD & SON LTD.,
Building & Civil Engineering Contractors,
Blue Bridge Lane, YORK.

CONTRACTOR'S AGENT Required for the construction of a private estate of about 80 houses in South Devon over a period of about 2 years.—Reply stating age, experience and salary required, to Box 2892, "The Builder."

CUBITTS

AGENTS AND GENERAL FOREMEN

required. Experienced in medium and large constructional works, including multi-storey and reinforced concrete construction.

These vacancies offer immediate responsibility (with appropriate rewards) and good future prospects in a rapidly expanding section of the Company.

Applicants are invited to write giving age, full particulars of training, qualifications, experience, and salary expected.

All applications will be treated in the strictest confidence.

Personnel Manager (BJ5470),
HOLLAND & HANNEN AND CUBITTS (GREAT BRITAIN) LTD.,
1, Queen Anne's Gate, LONDON, S.W.1

ROAD AND BRIDGE WORK
CIVIL ENGINEERING AGENT

Required by National Civil Engineering Contractor for large contract in Midlands area. Aged 30—40 years with recent experience of reinforced concrete construction and administration of large Contracts. Generous salary, bonus and pension scheme, car provided. Apply stating qualifications and experience to **Box No. 2919**

FOREMEN & SUPERVISORS

GENERAL FOREMAN for Estate Development. Practical experience of setting-out roads and sewers essential, together with supervision of earth moving plant. Possibility of follow on to Supervise House Building operations.—Apply stating age, and full details of experience to ARTHUR SANDERS Ltd., Rectory-road, Rushden, Northants.

GENERAL FOREMAN Required for two-storey extension contract, Stamford Hill, London, area. Carpenter and Joiner preferred. Write stating age, experience and salary required.—WILLIAM VERRY Ltd., 34-39 East Smithfield, London, E.1.

J. DOUGLASS MATHEWS & PARTNERS, Chartered Architects, Require experienced resident SITE SUPERVISORS on a permanent staff basis. Applicants must be prepared to go anywhere in the United Kingdom for resident appointments of one, two or three years. Salary £1,250-£1,750 according to job, experience and qualifications. Applicants to gives names of at least three architect or engineer references.—Reply to 3, Ebury-street, London, S.W.1.

GENERAL FOREMAN Required Factory Reconstruction Contract, Watford, £58,000.—Write stating experience, salary required, J. HONOUR & SON, Ltd., Trine.

GENERAL FOREMAN to supervise one or two small contracts (between £5,000 and £20,000). State age, experience and salary required.—C. NEAL & SON Ltd., West Horsley, Surrey.

SUPERVISOR wanted for West End firm of Decorators, good disciplinarian and first-class trade knowledge essential. Ability to estimate would be an asset.—Write Box 3000, "The Builder."

GENERAL FOREMAN Required for Commercial and Industrial buildings in Central London to value of £15,000-£50,000. Accurate setter-out and able to use a Dumpy level. Permanent position to right man. Salary by agreement.—Apply giving details of experience and age to Box 3016, "The Builder."

BUILDERS' SMALL WORKS AND JOBBING SUPERVISOR Required. Previous experience in similar capacity essential. Superannuation scheme in force.—Apply in writing to DEARSLEY & CARTER Ltd., 91/93 King-street, W.6, stating salary required and full particulars of past experience.

TEXAS INSTRUMENTS

BUILDING INSPECTOR

Texas Instruments Limited require a Building Inspector to assist the Resident Engineer on the construction of their new plant at Bedford. This is a modern building incorporating principles of design including lift-slab floors and concrete hyperbolic parabolaid shell roofs, similar to those used by associated companies in their plants in the U.S.A. Knowledge of Brickwork, Joinery and High Quality Finishes is essential. Salary £1,000 P.A. plus subsistence.

Apply in writing, quoting reference 78/C39 to :—

The Resident Engineer
TEXAS INSTRUMENTS LIMITED
Manton Lane - Bedford

W. & C. FRENCH Ltd. urgently Require GENERAL FOREMEN capable of taking charge of large housing contract with phasing programme of 15 houses per week. Applicants who have not had experience of large type contracts should not apply.—Apply in writing, stating age, experience and salary required, to Personnel Manager, 50 Epping New-road, Buckhurst Hill, Essex, quoting reference number 324.

WORKING GENERAL FOREMAN wanted for Church in Surrey, approximately £40,000.—Write full details to Box 2855, "The Builder."

GENERAL FOREMEN Required on housing estates in Surrey and Middlesex. Good prospects for right men.—Applications in writing to M. J. GLEESON (CONTRACTORS) Ltd., Haredon House, London-road, North Cheam, Surrey, giving full details past experience, etc.

BUILDER'S WORKING FOREMAN Required by progressive Company, Romford area. Experienced in taking charge of all trades—new work and alterations.—Write stating age, experience, salary required.—Box 2873, "The Builder."

EXPERIENCED GENERAL FOREMAN to supervise high-class finishing trades on London contract in South Kensington. Good salary and bonus.—Apply Box 2901, "The Builder."

GENERAL FOREMEN Required in North London for (a) individual large houses; (b) alteration contracts.—Telephone: CRAMB & DEAN Ltd., HAMpstead 7421 for interview.

GENERAL FOREMAN/SUPERVISOR Required for Housing Estate development in Fleet area, Hampshire. Good prospects and permanent position.—Write stating age, references and salary required: BAILEYS (BUILDERS & CONTRACTORS) Ltd., 2A Albert-road, New Malden, Surrey.

GENERAL FOREMAN Required by medium-sized East London builders for work in the London area. Must have had first-class all round experience and knowledge of new and alteration work. The position is permanent to a man of ability and carries participation in Pension scheme.—When replying, state age, experience and salary required, to Box 2924, "The Builder."

SUPERVISOR to take charge small contracts and jobbing work (E. London area). Knowledge of Builders' quantities; able to drive.—Write in detail, experience, etc., to Box 3030, "The Builder."

GENERAL FOREMAN Required immediately for School contract in Surrey. Fully experienced similar work.—Apply with details to SLOGGETTS (CONTRACTORS) Ltd., 209 High-street, Hampton Hill, Middx.

WANTED: WORKING FOREMAN C. & J. for small Contracts. Able to handle labour, organise and take complete charge. Knowledge of all trades. Woking area, to commence work about June. Write stating age, previous experience and salary. Good pay and bonus to right man.—Box 3060, "The Builder."

BUILDER'S HOUSING SITE FOREMAN/AGENT.—Write, stating age, experience and salary required, CORY, Builder, East Wittering, near Chichester.

GENERAL FOREMAN Required for £40,000 contract. New licensed premises in Harrow area, commencing immediately. Applicants, state experience, age, and salary required.—R. & F. DAW, Ltd., Walton Works, Walton-road, Wealdstone, Middlesex.

GENERAL FOREMAN. Must be experienced in mainly finishing trade contracts. Quality work. Occasional travelling.—Apply, details of age, experience, salary, to Director, HEAL'S BUILDING DEPARTMENT, 196 Tottenham Court-road, W.1.

Experienced
GENERAL FOREMAN

required for reinforced concrete multi-storey flats contract in London area.

Must be carpenter by trade and fully capable of all accurate setting out. Top salary and conditions to right man.

Apply, in confidence, with particulars to :

Box 3064, "The Builder"

EXPERIENCED TRADESMAN Required to supervise Contracts for Granolithic Flooring Specialists. Must be experienced in all contracts supervision and able to drive.—Write, full details of experience, age and salary, etc., Box 2976, "The Builder."

CONTRACT SUPERVISORS, AGENTS and **GENERAL FOREMEN** Required by leading Building Contractors for work in London and the Home Counties. Applications are invited from first-class men having experience of large contracts.—Apply giving full details of experience and the nature of the post applied for, to Box 2987, "The Builder."

REQUIRED immediately, top grade **GENERAL FOREMAN** for multi-storey block of flats S.E. coast. Must be capable of taking complete charge. Good prospects to right man.—Box 2840, "The Builder."

GENERAL FOREMAN Required for private Building Estate in Sunbury area.—Write giving full details of experience, age and salary required, to GENERAL HOUSING CO., Ltd., Cavendish House, 57/59 Uxbridge-road, Ealing, W.5.

WORKS SUPERVISOR Required to undertake control of jobs for small West End Builders. Must be thoroughly conversant with all trades, particularly joinery.—Write stating age, experience and salary required, Box 2718, "The Builder."

WORKING FOREMAN, Bricklayer or Carpenter, used to shoring, for £7,000 contract at Clapham. State age, experience and salary.—Box 2851, "The Builder."

GENERAL FOREMAN Required initially for Contract comprising flats, shops and maisonettes East London. Duration 18 months. Excellent prospects of permanent position for right man. Write, stating age, salary required, particulars of experience, and when free.—JERRAM, Sandford Works, E.6, or 'phone GRA 4617 for appointment.

GENERAL FOREMAN

required for Housing and General Building Contracts in North Sussex, Surrey and West Kent areas. The applicants will be required to be experienced in working under a modern conception of organisation, planning and control. They should be capable of controlling direct labour, materials and specialists in achieving keen and well co-ordinated programme dates. The position offered is with a rapidly expanding Company and will offer permanent and progressive opportunity to Senior Management status for suitably qualified men, who are prepared to show ambition, industry and initiative.

Apply in writing, giving details of experience, to:

G. T. CROUCH LTD.,
Contracts Division,
Kingston House, Stephenson Way,
Three Bridges,
Crawley, Sussex.

APPLICATIONS

are invited from suitably qualified persons to supervise the erection of a 3 storey office block in Hendon, on completion of which the successful candidate will be required for similar duties in Birmingham.

Total period of service approximately 18 months. Salary not exceeding £1,000 p.a. according to experience. Applicants must give details of experience and past appointments together with qualifications and the names of two referees, which should be sent to

Sir Thomas Williamson, C.B.E., J.P.,
National Union of
General & Municipal Workers,
Thorne House, 4-8 Endsleigh Gardens,
W.C.1.

GENERAL FOREMAN
FOREMAN CARPENTERS
GANGERS AND OTHER LABOUR

Wilson Lovatt & Sons Ltd., are about to start the construction of the Bridges Section of the Bristol to Birmingham Motor Way and invite applications from men already experienced in this work. Please apply to

Site Agent,
Contractors' Office,
WILSON LOVATT & SONS LTD.,
Wychbold,
Droitwich,
Worcestershire

SUPERVISOR Required, able to estimate for small works, and to carry out conversions and maintenance work. Permanent job for capable, energetic man.—Apply, SLOGGETTS (CONTRACTORS), Ltd., 209 High-street, Hampton Hill, Middlesex. Teddington Lock 3303.

GENERAL FOREMAN Required for Building Contracts in Reading area and Didcot, Berks.—Write, giving full details, to TILBURY CONSTRUCTION CO., Ltd., Ruscombe Works, Twyford, Berks.

GENERAL FOREMAN Required by large London builders for work in London area. Must have had first-class all-round experience and knowledge of New and alteration works. The position is permanent to a man of ability and carries participation in Pension Scheme.—When replying state age, experience, and salary required, to Box 3114, "The Builder."

THE BETHLEM ROYAL HOSPITAL. WORKS FOREMAN Required for building works and maintenance. The successful applicant must have served a full trade apprenticeship as carpenter and joiner and have had some years' experience in a supervisory capacity. A.S.C. conditions and wages at present £12 11s. 2d. per 44-hour week. Tenancy of five-roomed flat may be available if required. —For application form apply to House Governor, BETHLEM ROYAL HOSPITAL, Monks Orchard, Beckenham, Kent.

SENIOR BUILDING GENERAL FOREMAN

Foremen who have reached the top of their grade and have spent recent years in charge of large building projects are required for the permanent Contract Staff of an old-established B. & C.E. Contractor, for working in the Midlands Area. Top salary will be offered with allowances and there is a pension and bonus scheme. Applications should state age, training, past experience, etc. to

Box 3043, "The Builder"

GENERAL FOREMEN

required as follows :—

1. **R.C. framed Office Building in Soho, W.1. (£70,000).**
2. **Industrial Building, Elstree, Herts (£70,000).**

Following successful completion of contract, permanent pensionable posts offered.

Telephone:
McLAUGHLIN & HARVEY, LTD.,
CANNONBURY 2476 for appointment.

WM. AIREY & SON (LEEDS) LTD.
GENERAL FOREMEN

General Foremen are required who have been craft trained and have had experience on major industrial projects and of controlling sites of value up to £250,000. Sites to be controlled are all in the Leeds and W. R. Area.

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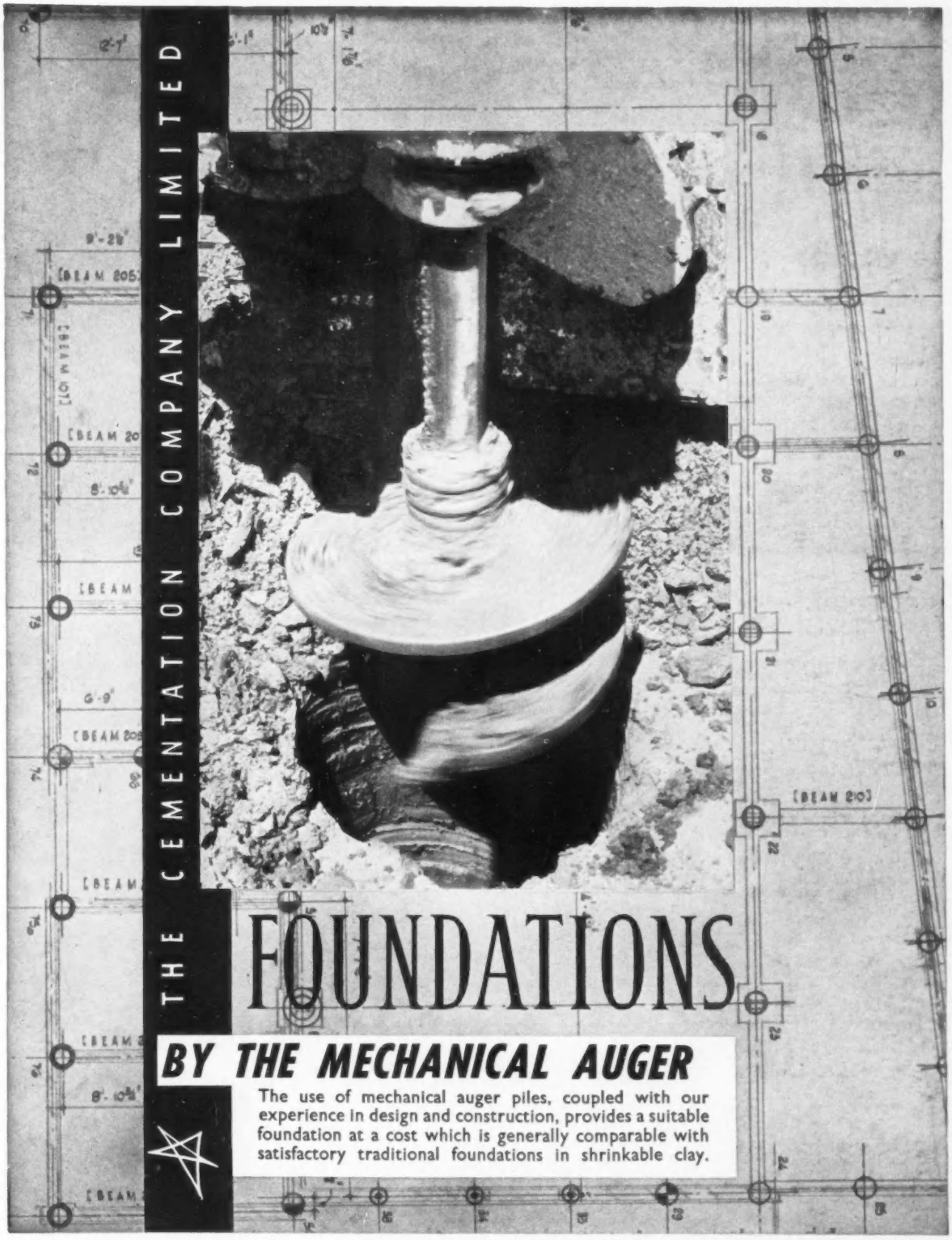

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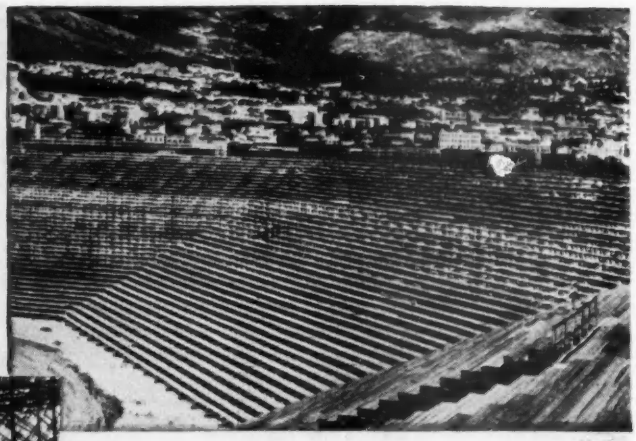

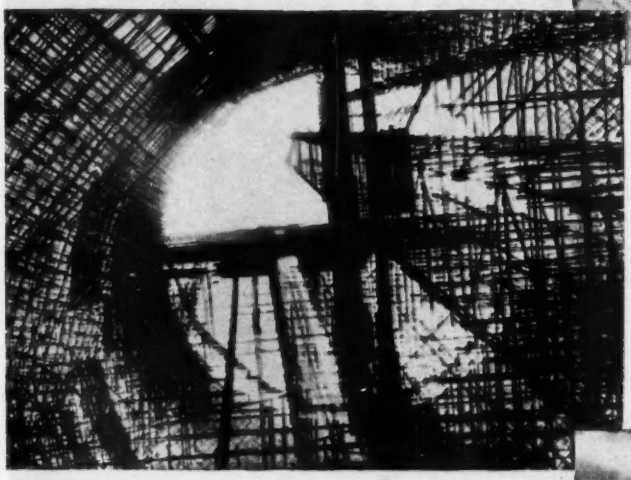

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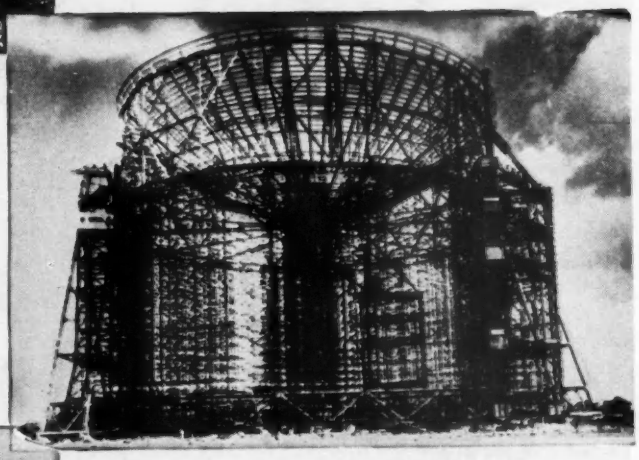

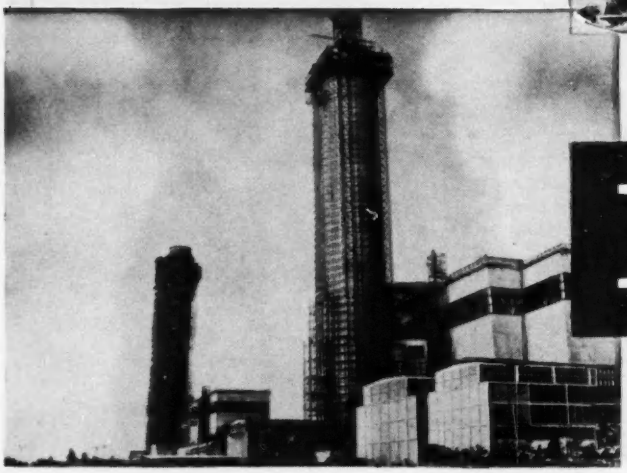

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